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AUTHOR Mahoney, Susan S.
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ABSTRACT

Credit earned by examination at the University of Texas (Austin) is equivalent to credit earned by taking the course, except that it will not count as credit earned in residence. This report covers the 1987-88 testing year, during which eight colleges or schools of the university participated in the credit-by-examination program. The examinations covered 49 subject areas in 159 courses taught in 35 departments/divisions of the university. Because many students took more than one test, the total number of tests exceeds the actual number of persons attempting to earn credit by examination. Evaluations of 26,190 test scores are recorded. There were 11,079 participants in 1987-88. Of these, 7,508 were successful in earning credit for at least one course, with 13,342 qualifying test scores generating a total of 69,762 semester hours of credit eligibility. Examination requirements and results are summarized for courses in: (1) biology; (2) chemistry; (3) Chinese; (4) computer sciences; (5) data processing and analysis; (6) economics; (7) electrical engineering; (8) English; (9) French; (10) German; (11) government; (12) history; (13) Latin; (14) mathematics; (15) physics; (16) psychology; (17) Russian; (18) sociology; and (19) Spanish. Students attempted to earn credit by examination in English, Spanish, and mathematics more often than in other subjects. Eighty-one tables of program results and four graphs illustrating categories of tests are provided. (SLD)

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CREDIT BY EXAMINATION AT THE UNIVERSITY OF TEXAS AT AUSTIN 1987-1988

Susan S. Mahoney

SR-88-2

April 1989

MEASUREMENT AND EVALUATION CENTER
The University of Texas at Austin

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CREDIT BY EXAMINATION AT THE UNIVERSITY OF TEXAS AT AUSTIN
1987-1988

Susan S. Mahoney

The Measurement and Evaluation Center (MEC) is responsible for coordinating credit by examination at The University of Texas at Austin. Policies governing each part of the program are made by the participating academic departments. In administering the testing program, MEC implements those policies.

Credit earned by examination at U.T. Austin is equivalent to credit earned by taking the course, except that credit by examination cannot be counted as credit earned in residence. Students or former students who earn credit by examination may petition for the credit for which they are eligible as soon as they choose to do so. Other persons may receive the credit for which they are eligible only after they enroll as students at U.T. Austin.

For a student who attended college prior to taking the examination, eligibility for credit depends upon the college courses studied before taking the examination. For example, credit by examination is not awarded if the student received college credit or a failing grade for the same course, or its equivalent, prior to taking the examination. To receive credit by examination, students must also meet all other conditions of eligibility established by the University, the schools/colleges, and the academic departments.

The reader should be aware that figures relating to eligibility for credit are derived from comparisons of test scores with score ranges qualifying students for credit, that some students do not claim all of the credit for which they are eligible, and that credit claimed by the eligible student may or may not be reported by MEC to the Registrar in the testing year covered by this report.

This report covers the 1987-1988 testing year, which began generally speaking in June, 1987, and continued through May, 1988. Scores from the various testing categories were evaluated during those months, although some of the tests may have been administered prior to June, 1987.

During the 1987-1988 testing year, eight colleges/schools at U.T. Austin participated in the credit-by-examination program. Evaluations of 26,190 test scores, covering 49 subject areas in 159 courses taught in 35 departments/divisions, are recorded in this report. Because many students took more than one test, the total number of tests exceeds the actual number of persons who attempted to earn credit by examination. There were 11,079 participants in the credit-by-examination program during the year; 7,508 (68%) of those persons were successful in earning credit for at least one course, with 13,342 qualifying test scores generating a total of 69,762 semester hours of credit eligibility.

There were four common groupings in the number of tests students took during the testing year. The largest group was that of the 3,609 (33%) students who took one test, while 3,022 (27%) individuals took two tests. The third ranking group was that of the 2,676 (24%) students who took three tests during this time period; the remaining 2,402 (22%) students took four or more examinations.

The most common pattern of test-taking among students during 1987-1988 was a combination of two tests--the College Board Achievement Tests in English Composition (ECT) and Mathematics Level I/Level II: 2,679 (24%) students had scores from those two tests. In second rank were the 2,071 (19%) students who took the ECT, Mathematics Level I/Level II, and a foreign language test. There were 1,700 (15%) individuals who took tests other than the Achievement Tests in English Composition or in Mathematics Level I/Level II, or in a foreign language. The fourth ranked group was that with 1,216 (11%) persons who took a foreign language test. In fifth rank were the 865 (8%) students who took the Achievement Tests in English Composition, Mathematics Level I/Level II, and some test other than a foreign language. The remaining 2,548 (23%) individuals took examinations in other combinations of subject areas.

Of the 11,079 individuals who participated in the credit-by-examination program during 1987-1988, 3,571 (32%) earned no credit eligibility. A total of 2,417 (22%) students earned between one and three semester hours of credit eligibility; 1,675 (15%) merited between four and six semester hours. From 7 to 18 semester hours of credit eligibility were earned by 2,533 (23%) of the participants. At the upper range of the scale were 679 (6%) persons who earned between 19 and 30 semester hours and 184 (2%) students who qualified for more than 30 semester hours. One particularly well-prepared student took 5 tests and accumulated 104 semester hours of credit eligibility.

U.T. Austin's program of credit by examination is comprised of five different categories of test administrations: U.T. Austin institutional administrations, U.T. Austin departmental administrations, national administrations of CLEP Subject Examinations, national administrations of College Board Achievement Tests, and national administrations of College Board Advanced Placement (AP) Examinations.

U.T. Austin institutional administrations have the greatest impact on the credit-by-examination program. The following three criteria define this testing category and distinguish it from both U.T. Austin departmental administrations and national testing administrations with which MEC is involved:

1. The tests were administered at U.T. Austin by MEC at scheduled times,
2. The tests were scored at U.T. Austin, and
3. Fees for the tests were paid to U.T. Austin.

The tests were of four types: (a) U.T. Austin Tests for Credit constructed locally by certain academic departments, (b) College Board Achievement Tests, (c) College Board CLEP Subject Examinations, and (d) College Board AP Examinations.

Administration of the tests took place in four test settings: testing periods preceding fall and spring semesters and the first summer term, the summer orientation sessions, group testing in October and April before registration for the spring and fall semesters, and individually administered

test sessions held at the request of the departments, or by MEC, for special reasons.

U.T. Austin departmental administrations are given on an individual basis. In any undergraduate course offered by the University, a registered student may take an examination in any course for which she/he is qualified, provided that the application is approved by the appropriate faculty members and administrators.

Application forms for the departmental examinations are available at the MEC. On the application, the student must state the reasons why she/he is qualified to take the test. Before the examination is given, the application must be approved by the chairman or program director of the department in which the course is offered and the dean of the college or school in which the student is enrolled.

These tests are not given on a regular schedule. When the application is submitted, the department administers the test at its convenience. The examination is graded by the department, which is expected to maintain the same level of achievement on the test as that required to pass the University course satisfactorily. To be eligible for credit, a student must make a satisfactory grade of at least a C.

When the results of the examination are known, the application form is returned to the Measurement and Evaluation Center. If credit has been earned, MEC reports the credit to the Registrar's office with a letter grade or with credit only, as directed by the student.

In national administrations of College Board tests, the examinations are available at designated test centers on common dates throughout the nation. After the national administration has been completed, test materials are returned to the Educational Testing Service (ETS). The tests are scored by ETS, and the scores are reported to the institutions designated by the students. U.T. Austin uses scores on specific tests from national administrations of three College Board testing programs: CLEP Subject Examinations, Achievement Tests, and Advanced Placement Examinations.

The CLEP examinations are usually administered in colleges and universities throughout the country. The Measurement and Evaluation Center serves as one of the national test centers for the College Board College-Level Examination Program in addition to offering certain CLEP Subject Examinations in institutional testing. CLEP examinations are available through national administrations 10 times a year, each month except December and February.

The College Board Advanced Placement (AP) Examinations are administered nationally once a year in May. National administrations of the College Board Achievement Tests are scheduled five times during the academic year. For both programs, high schools typically serve as test centers.

A variety of test fees are paid by candidates for credit by examination. For U.T. Austin students, the fees may vary depending on whether the tests were taken as part of a national program or in an institutional administration.

U.T. Austin Institutional Administrations

U.T. Austin Tests for Credit:

Required tests: $25.00 per test.
After September 16, 1987, $27.00 per test.

Optional tests: $40.00 per test.
After September 16, 1987, $42.00 per test.

College Board Achievement Tests: $25.00 per test.
After September 16, 1987, $27.00 per test.

College Board College-Level Examination Program (CLEP) Subject Examinations: $35.00 per test.

College Board AP Examinations: $40.00 per test.

U.T. Austin Departmental Administrations

Required tests: $25.00 per test.
After September 16, 1987, $27.00 per test.

Optional tests: $40.00 per test.
After September 16, 1987, $42.00 per test.

National Administrations of College Board CLEP Subject Examinations

$35.00 per test.

National Administrations of College Board Achievement Tests

Between October 1, 1986, and September 1, 1987, the fee was $19.50 for one, two, or three Achievement tests taken on the same date.

National Administrations of College Board Advanced Placement Examinations

May, 1987, $53.00 per examination.

Test results in 19 subject areas, each with a test volume of 20 or more scores, are reported alphabetically in the following section. For documentation of test results in subjects with fewer than 20 test scores, for the overall impact of credit by examination on the eight participating schools/colleges, and for comparisons of 1987-1988 test results with results from preceding years in U. T. Austin's credit-by-examination program, the reader is referred to the summary section of this report.

BIOLOGY

Biology 302, 303, and 304: Introductory Courses in the Biological Sciences

The College Board Advanced Placement (AP) Examination in Biology allows one hour and 30 minutes of working time on the objective portion and an additional 90 minutes on the essay portion. All scores of 5, 4, or 3 received from national administrations of this test are subject to review by a U. T. Austin faculty member of the Division of Biological Sciences. Both the objective score and the essay are taken into consideration in determining the credit a student receives. After the review, a student may be awarded credit for any combination of the three courses or possibly no credit for any course. Scores of 2 or 1 are not eligible for review or credit.

In on-campus administrations of the objective portion of the College Board AP Examination in Biology (designated as the Test for Credit in Biology), there is no review. The objective score alone is used to determine credit. This test was replaced in January, 1988, by the U.T. Austin Test for Credit in Biology. This new, locally constructed test is entirely objective and allows three hours of working time.

A student must have fewer than six semester hours--whether with passing or failing grades--in the life sciences (biology, biochemistry, botany, microbiology, zoology) to be eligible for credit.

Table 1 shows the numbers and percentages of test scores evaluated, tests generating eligibility, and grades awarded for each of the three biology courses: Biology 302 (Cellular and Molecular Biology), Biology 303 (Structure and Function of Organisms), and Biology 304 (Environmental and Population Biology). Because of the possibility of earning credit for one, two, or all three courses, the numbers shown under each individual course will not be equal to the numbers shown as generating eligibility.

The 34 scores from institutional administrations represent 14% of the 238 biology scores evaluated, while the 20 successful institutionally administered tests were 12% of the 162 biology tests meriting credit. Those 20 tests generated 114 semester hours of credit eligibility--12% of the total of 987 semester hours.

Conversely, the 204 scores received from national administrations of the Biology AP examination constituted 86% of the 238 scores evaluated. The 142 national scores generating eligibility constituted 88% of the total of eligible tests. Credit eligibility resulting from the national program totaled 873 (88%) semester hours.

Compared within each of the two programs, 59% of the institutional tests earned credit, while 70% of the national tests did so.

Table 2 presents a summary, by combination of courses, of credit earned by examination in biology during the 1987-1988 testing year. The numbers and percentages of test scores are displayed, as well as the number of semester hours of credit eligibility. A total of 238 scores were evaluated during the year; 162 (68%) of the tests accrued a total of 987 semester hours of credit eligibility. Fifty (21%) tests received credit for all three of the introductory biology courses.

Table 1

Credit by Examination: AP Biology
1987-1988

Test	Test Scores Evaluated		Test Scores Generating Eligibility		Course and Grade								
					302			303			304		
	N	%	N	%	A	B	C	A	B	C	A	B	C
U.T.	34	14%	20	12%	3	7	5	1	3	3	3	3	10
AP													
5	35	15%	32	20%	18	7	6	11	13	6	20	8	2
4	65	27%	58	36%	6	15	20	2	7	22	21	17	15
3	61	26%	52	32%	0	5	16	0	0	9	11	19	15
2,1	43	18%	0	0%	--	--	--	--	--	--	--	--	--
Total	238	100%	162	100%	27	34	47	14	23	40	56	47	42

Table 2

Summary of Credit by Examination in Biology
1987-1988

Combination of Courses	Test Scores Evaluated		Semester Hours of Credit Eligibility	
	N	%	N	%
302, 303, 304	50	21%	450	46%
303, 304	17	7%	102	10%
302, 304	46	19%	276	28%
302, 303	4	2%	24	2%
304	31	13%	93	9%
303	6	3%	18	2%
302	8	3%	24	2%
Total eligible	162	68%	987	100%*
Not eligible	76	32%	0	0%
Total	238	100%	987	100%

*Because of rounding error, this percentage differs from that obtained by addition of the above seven figures.

CHEMISTRY

Five different tests are used to award credit by examination in chemistry at U.T. Austin: The U.T. Austin Tests for Credit in Chemistry 304K, 301, 302, 305 and the College Board Advanced Placement (AP) Examination. This report contains tables documenting the results of each of the five tests (Tables 3 through 7). The numbers and percentages of test scores evaluated, letter grades awarded, and semester hours of credit eligibility are presented. In addition, Table 8 summarizes the results of the credit-by-examination program in chemistry during the 1987-1988 testing year.

During the time period covered by this report, 739 scores from the five chemistry tests were evaluated; 288 (39%) of these scores merited a total of 1,014 semester hours of credit eligibility. The Measurement and Evaluation Center administered 612 (83%) tests on the U.T. Austin campus. One test was given by the Department of Chemistry, with the remaining 126 (17%) test scores reported to the MEC from national administrations of the Chemistry AP Examination.

The U.T. Austin Test for Credit in Chemistry 301 had the largest volume of test scores--468 (63%) of the 739 test scores evaluated. This test's population produced 126 (44%) of the 288 tests that generated credit eligibility; those 126 test scores yielded 378 (37%) of the 1,017 semester hours of credit eligibility. Twenty-seven percent of the students who tried to earn credit by means of this test were successful in their attempts.

The Chemistry AP Examination was ranked second in terms of test volume with 126 (17%) of the 723 scores. This program had 51 (18%) of the 288 scores meriting credit with 306 semester hours of eligibility accruing--or 30% of the total of 1,014. Forty percent of the 126 AP scores merited credit.

Chemistry 304K: Introduction to Chemistry

The U.T. Austin Test for Credit in Chemistry 304K, constructed locally by the U.T. Austin Department of Chemistry, allows one hour and 15 minutes of working time. The test is administered only on the U.T. Austin campus.

Eligible to take this optional test are individuals who (a) have not taken the test previously and (b) have neither a passing nor a failing grade for Chemistry 304K.

Table 3

Credit by Examination in Chemistry 304K: U.T. Austin
1987-1988

Eligible for Credit	Test Scores Evaluated		Semester Hours of Credit Eligibility
	N	%	
With grade of A	29	41%	87
With grade of B	20	29%	60
With grade of C	14	20%	42
Total eligible	63	90%	189
Not eligible	7	10%	0
Total	70	100%	189

Chemistry 301: Introductory Chemistry

The U.T. Austin Test for Credit in Chemistry 301, constructed locally by the U.T. Austin Department of Chemistry, allows one hour and 15 minutes of working time. The test is administered only on the U.T. Austin campus.

Individuals who have not taken the test previously and have neither a passing nor a failing grade for Chemistry 301 or its equivalent are eligible to take the examination.

The test is required of students who (a) plan to work toward a Bachelor of Science degree in chemistry, physics, or chemical engineering, (b) studied chemistry in high school, and (c) do not already have credit for Chemistry 301 or its equivalent. The College of Engineering encourages its students in other engineering majors to take the test if they have sufficient background. The test is recommended to students who plan to work for a Bachelor of Arts degree in physics; it is appropriate for other students with a strong background in high school chemistry.

Table 4

Credit by Examination in Chemistry 301: U.T. Austin
1987-1988

Eligible for Credit	Test Scores Evaluated		Semester Hours of Credit Eligibility
	N	%	
With grade of A	23	5%	69
With grade of B	37	8%	111
With grade of C	66	14%	198
Total eligible	126	27%	378
Not eligible	342	73%	0
Total	468	100%	378

Chemistry 302: Principles of Chemistry

The U.T. Austin Test for Credit in Chemistry 302, constructed locally by the U.T. Austin Department of Chemistry, allows one hour and 15 minutes of working time. The test is administered only on the U.T. Austin campus.

Eligible to take this test are individuals who have not taken the test previously and have neither a passing nor a failing grade for Chemistry 302 or its equivalent.

This test is optional.

Table 5

Credit by Examination in Chemistry 302: U.T. Austin
1987-1988

Eligible for Credit	Test Scores Evaluated		Semester Hours of Credit Eligibility
	N	%	
With grade of A	7	17%	21
With grade of B	12	29%	36
With grade of C	13	31%	39
Total eligible	32	76%*	96
Not eligible	10	24%	0
Total	42	100%	96

*Because of rounding error, this percentage differs from that obtained by addition of the above three figures.

Chemistry 305: Topics in General Chemistry

The U. T. Austin Test for Credit in Chemistry 305, constructed locally by the U.T. Austin Department of Chemistry, allows one hour and 15 minutes of working time. The test is administered only on the U.T. Austin campus.

Individuals who have not taken the test previously and have neither a passing nor failing grade for Chemistry 305 or its equivalent are eligible to take this optional test.

Table 6

Credit by Examination in Chemistry 305: U.T. Austin
1987-1988

Eligible for Credit	Test Scores Evaluated		Semester Hours of Credit Eligibility
	N	%	
With grade of A	2	6%	6
With grade of B	10	31%	30
With grade of C	3	9%	9
Total eligible	15	47%*	45
Not eligible	17	53%	0
Total	32	100%	45

*Because of rounding error, this percentage differs from that obtained by addition of the above three figures.

Chemistry 301 and 302

The College Board Advanced Placement (AP) Examination in Chemistry allows 90 to 105 minutes of working time for the objective portion of the test with an additional 75 to 90 minutes allotted for the essay/free response portion of the examination.

For a College Board AP score of 5, the student is awarded the letter grade of A for both Chemistry 301 and Chemistry 302. An AP score of 4 merits Credit Only for both Chemistry 301 and 302; there is no letter grade attached. Chemistry AP examination scores of 3, 2, and 1 are not eligible for credit at U.T. Austin.

Table 7

Credit by Examination in Chemistry 301 and 302: AP Chemistry
1987-1988

AP Score	Test Scores Evaluated		Test Scores Generating Eligibility		Course and Grade				Semester Hours of Credit Eligibility
					301		302		
	N	%	N	%	A	CR	A	CR	N
5	13	10%	13	25%	13	--	13	--	78
4	38	30%	38	75%	--	38	--	38	228
3,2,1	75	60%	0	0%	--	--	--	--	0
Total	126	100%	51	100%	13	38	13	38	306

Table 8

Summary of Credit by Examination in Chemistry
1987-1988

Test and Course(s)	Test Scores Evaluated		Test Scores Generating Eligibility		Semester Hours of Credit Eligibility	
	N	%	N	%	N	%
U.T.: CH 304K	70	9%	63	22%	189	19%
U.T.: CH 301	468	63%	126	44%	378	37%
U.T.: CH 302	42	6%	32	11%	96	9%
U.T.: CH 305	32	4%	15	5%	45	4%
AP: CH 301, 302	126	17%	51	18%	306	30%
Dep't: Miscellaneous	1	<1%	1	<1%	3	<1%
Total	739	99%	288	100%	1,017	99%*

*This figure differs from 100% because of rounding error.

CHINESE

Chinese 506, 507, 412K, 412L

The U.T. Austin Test for Credit in Chinese, constructed locally by faculty members of the Department of Oriental and African Languages and Literatures, is divided into two sections--a 20-minute taped listening portion and a 40-minute reading portion.

Individuals who have not taken this test previously are eligible to take this examination.

This test is required of all students who have knowledge of Chinese, who have no college credit in Chinese, and who intend to enroll in a U.T. Austin Chinese course.

During the 1987-1988 testing year, the Measurement and Evaluation Center administered 235 Chinese tests; 228 (97%) tests merited credit. A total of 3,990 semester hours of credit eligibility was generated by this test.

Table 9
Credit by Examination in Chinese: U.T. Austin
1987-1988
(Number of Test Scores Evaluated: 235)

Course	Test Scores Generating Eligibility	Grade			Semester Hours of Credit Eligibility
		A	B	C	
506	228	219	3	6	1,140
507	222	216	3	3	1,110
412K	219	216	3	3	876
412L	216	210	3	3	864
Total	--	--	--	--	3,990

Table 10
Credit by Examination in Chinese: U.T. Austin
1987-1988

Combination of Courses	Test Scores Evaluated		Semester Hours of Credit Eligibility	
	N	%	N	%
506, 507, 412K, 412L	216	92%	3,888	97%
506, 507, 412K	3	1%	42	1%
506, 507	3	1%	30	1%
506	6	3%	30	1%
Total eligible	228	97%	3,990	100%
Not eligible	7	3%	0	0%
Total	235	100%	3,990	100%

Table 11
Summary of Credit by Examination in Chinese
1987-1988

Course	Test Scores Evaluated		Test Scores Generating Eligibility		Semester Hours of Credit Eligibility	
	N	%	N	%	N	%
U.T.	235	100%	228	100%	3,990	100%
Total	235	100%	228	100%	3,990	100%

COMPUTER SCIENCES

Computer Sciences 304P: PASCAL Programming

Two different tests are used to award credit by examination in computer sciences at U.T. Austin: The U.T. Austin Test for Credit in Computer Sciences 304P and The College Board Advanced Placement (AP) Examination in Computer Science. This report contains tables documenting the results of each of the tests (Tables 12 and 13). The numbers and percentages of test scores evaluated, letter grades awarded, and semester hours of credit eligibility are presented. In addition, Table 14 summarizes the results of the credit-by-examination program in computer sciences during the 1987-1988 testing year. A total of 104 test scores were evaluated during this time period with 69 eligible tests accruing 207 semester hours of credit eligibility.

The U.T. Austin Test for Credit in Computer Sciences 304P, constructed locally by faculty members of the U.T. Austin Department of Computer Sciences, allows two hours of working time. The test is administered only on the U.T. Austin campus.

Individuals who have a score of 460 on The College Board Achievement Test in Mathematics Level I or three hours of college credit in a college mathematics course, who do not have credit for Computer Sciences 328, who do not have a passing or a failing grade in Computer Sciences 304P, and who have not taken the test previously are eligible to take this optional examination.

The three-hour College Board Advanced Placement (AP) Examination in Computer Science consists of a multiple-choice section and a free-response section. A College Board rating of 5 on this examination establishes credit for Computer Sciences 304P with a grade of A. A rating of 4 is awarded a grade of B, while a rating of 3 merits a grade of C. Ratings of 2 and 1 are not eligible for credit.

The College Board AP Examination had 75 test scores reported to U.T. Austin from national administrations. Sixty-five test scores from the AP program qualified for credit and produced 168 semester hours of credit eligibility, 86% of the total of 195 semester hours in this subject.

Table 12

Credit by Examination in Computer Sciences 304P: U.T. Austin
1987-1988

Eligible for Credit	Test Scores Evaluated		Semester Hours of Credit Eligibility
	N	%	
With grade of A	0	0%	0
With grade of B	1	5%	3
With grade of C	8	36%	24
Total eligible	9	41%	27
Not eligible	13	59%	0
Total	22	100%	27

Table 13
Credit by Examination in Computer Sciences 304P:
AP Examination in Computer Science
1987-1988

AP Score	Test Scores Evaluated		Test Scores Generating Eligibility		Semester Hours of Credit Eligibility	
	N	%	N	%	N	%
5	19	25%	19	34%	57	34%
4	23	31%	23	41%	69	41%
3	14	19%	14	25%	42	25%
2,1	19	25%	0	0%	0	0%
Total	75	100%	56	100%	168	100%

Table 14
Summary of Credit by Examination in Computer Sciences
1987-1988

Test	Test Scores Evaluated		Test Scores Generating Eligibility		Semester Hours of Credit Eligibility	
	N	%	N	%	N	%
U.T.	22	21%	9	13%	27	13%
AP	75	72%	56	81%	168	81%
Dep't: Miscellaneous	7	7%	4	6%	12	6%
Total	104	100%	69	100%	207	100%

DATA PROCESSING AND ANALYSIS

Data Processing and Analysis 310: Introduction to Electronic Data Processing

The U.T. Austin Test for Credit in DPA 310, constructed locally by faculty members of the U.T. Austin Department of General Business, allows two hours of working time. The test is administered only at the U.T. Austin campus.

Individuals who do not have a passing or a failing grade in DPA 310 who have credit for Mathematics 403K or its equivalent and who have not taken the test previously are eligible to take this optional examination.

Table 15

Credit by Examination in DPA 310: U.T. Austin
1987-1988

Eligible for Credit	Test Scores Evaluated		Semester Hours of Credit Eligibility
	Number	Percentage	
With grade of A	0	0%	0
With grade of B	2	3%	6
With grade of C	6	10%	18
Total eligible	8	13%	24
Not eligible	55	87%	0
Total	63	100%	24

During the 1987-1988 testing year, the Measurement and Evaluation Center administered 63 DPA 310 tests. Eight tests merited credit for 24 semester hours of credit eligibility.

Table 16

Summary of Credit by Examination in Data Processing Analysis
1987-1988

Test	Test Scores Evaluated		Test Scores Generating Eligibility		Semester Hours of Credit Eligibility	
	N	%	N	%	N	%
U.T.	63	94%	8	67%	24	62%
Dep't: Miscellaneous	4	6%	4	33%	15	38%
Total	67	100%	12	100%	39	100%

ECONOMICS

Three College Board College-Level Examination Program (CLEP) Subject Examinations are used to award credit by examination in three economics courses: Introductory Macroeconomics (Economics 302), Introductory Microeconomics (Economics 303), and Introductory Micro- and Macroeconomics (Economics 302 and 303). One hour and 30 minutes of working time are allowed for each test.

Individuals who have not taken these optional tests within the past six months and who have neither a passing nor a failing grade in the course(s) for which they are attempting to earn credit are eligible to take these tests.

This Special Report documents the results of the credit-by-examination program in this subject during the 1987-1988 testing year (see Table 21). During this time period, 122 test scores were evaluated. Of this total, 107 (88%) test scores qualified for 465 semester hours of credit eligibility.

Eighteen (86%) of the 21 test scores reported for the Macroeconomics examination earned 54 semester hours of credit eligibility in Economics 302. For the Microeconomics test, 46 test scores were reported, 40 (87%) of which were awarded 120 semester hours of credit eligibility in Economics 303. For the Micro- and Macroeconomics examination, 54 scores were evaluated, 48 (89%) of which merited 288 semester hours of credit eligibility.

The Measurement and Evaluation Center administered 116 CLEP economics tests on the U.T. Austin campus during the 1987-1988 testing year. Five scores were reported from national CLEP administrations. One economics test was administered by the department.

Tables 17-20 present the numbers and percentages of test scores evaluated, letter grades awarded, and the semester hours of credit eligibility for the three CLEP examinations. Table 21 summarizes the results of all credit by examination in economics during the time period.

Economics 302: Introduction to Macroeconomics

Table 17

Credit by Examination in Economics 302: CLEP Introductory Macroeconomics
1987-1988

Eligible for Credit	Test Scores Evaluated		Semester Hours of Credit Eligibility
	Number	Percentage	
With grade of A	7	33%	21
With grade of B	8	38%	24
With grade of C	3	14%	9
Total eligible	18	86%*	54
Not eligible	3	14%	0
Total	21	100%	54

*Because of rounding error, this percentage differs from that obtained by addition of the above three figures.

Note. Score ranges: 63-80 = A, 55-62 = B, 48-54 = C, 20-47 = no credit.

Economics 303: Introduction to Microeconomics

Table 18

Credit by Examination in Economics 303: CLEP Introductory Microeconomics
1987-1988

Eligible for Credit	Test Scores Evaluated		Semester Hours of Credit Eligibility
	Number	Percentage	
With grade of A	18	39%	54
With grade of B	14	30%	42
With grade of C	8	17%	24
Total eligible	40	87%*	120
Not eligible	6	13%	0
Total	46	100%	120

*Because of rounding error, this percentage differs from that obtained by addition of the above three figures.

Note. Score ranges: 61-80 = A, 54-60 = B, 47-53 = C, 20-46 = no credit.

Economics 302 and 303

Table 19

Credit by Examination in Economics 302 and 303:
CLEP Introductory Micro- and Macroeconomics
1987-1988

Eligible for Credit	Test Scores Evaluated		Semester Hours of Credit Eligibility
	Number	Percentage	
With grade of A	23	43%	138
With grade of B	19	35%	114
With grade of C	6	11%	36
Total eligible	48	89%	288
Not eligible	6	11%	0
Total	54	100%	288

Note. Score ranges: 61-80 = A, 54-60 = B, 47-53 = C, 20-46 = no credit.

Table 20
Credit by Examination in Economics: CLEP
1987-1988

Course(s)	Test Scores Evaluated		Test Scores Generating Eligibility		Hours of Credit Eligibility	
	N	%	N	%	N	%
302	21	17%	18	17%	54	12%
303	46	38%	40	38%	120	26%
302 and 303	54	45%	48	45%	288	62%
Total	121	100%	106	100%	462	100%

Table 21
Summary of Credit by Examination in Economics
1987-1988

Test	Test Scores Evaluated		Test Scores Generating Eligibility		Semester Hours of Credit Eligibility	
	N	%	N	%	N	%
CLEP	121	100%	106	100%	462	100%
Dep't: Miscellaneous	1	<1%	1	<1%	3	<1%
Total	122	100%	107	100%	465	100%

ELECTRICAL ENGINEERING

Electrical Engineering 312: Electrical Engineering Computation I

The College Board's College-Level Examination Program (CLEP) Subject Examination in Elementary Computer Programming-Fortran IV allows 90 minutes of working time. In addition, one hour of working time is allotted for a U.T. Austin test (PASCAL) that supplements the CLEP examination.

Individuals who have not taken the tests within the past six months and have neither a passing nor failing grade in Electrical Engineering 312 or its equivalent are eligible to take this optional test.

During the 1987-1988 testing year, the Measurement and Evaluation Center administered 16 examinations for Electrical Engineering 312. The results of those tests are shown in Table 22. A faculty member of the Department of Electrical and Computer Engineering grades the U.T. Austin portion of the test.

Table 22

Summary of Credit by Examination in Electrical Engineering 312: CLEP Elementary Computer Programming--Fortran IV 1987-1988

Eligible for Credit	Test Scores Evaluated		Semester Hours of Credit Eligibility
	Number	Percentage	
With grade of A	2	13%	6
With grade of B	7	44%	21
With grade of C	3	19%	9
Total eligible	12	75%*	36
Not eligible	4	25%	0
Total	16	100%	36

*Because of rounding error, this percentage differs from that obtained by addition of the above three figures.

Note. To earn credit in Electrical Engineering 312, a student must make both a minimum score of 51 on the CLEP examination and a grade of C or higher on the U.T. Austin PASCAL test.

ENGLISH

Four tests are used to grant credit by examination in English at U.T. Austin. The College Board Achievement Test in English Composition (ECT) is used for English 306. A second English test used at the freshman level is the College Board Advanced Placement (AP) Examination in Language and Composition, for which credit in English 306 and 308 can be earned by examination. At the sophomore level, two other College Board examinations are used: the College-Level Examination Program (CLEP) Subject Examination in Analysis and Interpretation of Literature for English 316K and the AP Examination in Literature and Composition for English 316K.

Tables 23-26 present results of each examination; Table 27 summarizes the results of credit by examination from all four English tests during 1987-1988.

During this testing year, 9,254 English test scores were evaluated. There were 3,569 (39%) tests with scores qualifying students for 11,232 semester hours of credit eligibility. The ECT produced the largest test volume: 7,789 test scores evaluated, 2,637 tests generating 7,911 semester hours of credit eligibility. The AP Examination in Literature and Composition ranked second in this comparison with 899 tests evaluated and 734 eligible test scores producing 2,202 semester hours of credit eligibility.

The Measurement and Evaluation Center administered 5,482 (59%) English tests during this time period. The remaining 3,772 (41%) test scores were reported from national administrations of the ECT, the two College Board AP Examinations in English, and the CLEP subject examination.

English 306: Rhetoric and Composition

The College Board Achievement Test in English Composition (ECT) allows one hour of working time. A score on this test is required before enrollment in English 306, the basic first-semester college English course.

The ECT is available in both institutional and national administrations. The Measurement and Evaluation Center administered 5,395 (69%) of

these tests on the U.T. Austin campus during the 1987-1988 testing year. The remaining 2,394 (31%) tests were given in national administrations.

Table 23 presents the 1987-1988 credit by examination results for both national and institutional administrations of the ECT. A total of 7,789 scores were evaluated during this time period; 2,637 (34%) of the tests merited 7,911 semester hours of credit eligibility.

Table 23

Credit by Examination in English 306: Achievement Test in English Composition 1987-1988

Eligible for Credit	Test Scores Evaluated		Semester Hours of Credit Eligibility
	Number	Percentage	
With grade of A	1,210	16%	3,630
With grade of B	1,427	18%	4,281
Total eligible	2,637	34%	7,911
Not eligible	5,152	66%	0
Total	7,789	100%	7,911

Note. Score ranges: 610-800 = A, 550-609 = B, 200-549 = no credit.

English 306; English 308 (Rhetoric, Logic, and Expository Writing)

The College Board Advanced Placement (AP) Examination in Language and Composition is a three-hour test divided into two portions; typically, the examination allots an hour and 15 minutes for the multiple-choice portion and an hour and 45 minutes for the essay portion. A College Board score rating of 5 or 4 on this examination creates credit eligibility for both English 306 and English 308 with a letter grade of A. A test with the College Board rating of 3 is reviewed by the Department of English for possible credit in English 306 and/or English 308 with a letter grade of A or B for one or both courses. Scores of 2 and 1 are not eligible for credit.

Table 24 documents the results of the 478 scores on the AP Language and Composition examination during 1987-1988. A total of 195 (41%) of the tests merited 1,110 semester hours of credit eligibility in freshman English.

Table 24

Credit by Examination in English 306 and 308
AP English in Language and Composition
1987-1988

Score	Test Scores Evaluated		Test Scores Generating Eligibility		Course and Grade				Semester Hours of Credit Eligibility
					306		308		
	N	%	N	%	A	B	A	B	N
5,4	175	37%	175	90%	175	—	175	—	1,050
3	172	36%	20	10%	2	18	0	0	60
2,1	131	27%	0	0%	—	--	—	--	0
Total	478	100%	195	100%	177	18	175	0	1,110

English 316K: Masterworks of Literature

The College Board CLEP Subject Examination in Analysis and Interpretation of Literature allows one hour and 30 minutes of working time on the objective portion. The essay portion allots an additional hour and 30 minutes of working time.

The Department of English requires both the objective portion and the essay portion of the test. Satisfactory performance is required on both portions of the test. The minimum satisfactory objective score is 51. The essays, which are graded by Department of English faculty members, must merit a grade of at least C. The test is optional.

Table 25

Credit by Examination in English 316K
CLEP Analysis and Interpretation of Literature
1987-1988

Eligible for Credit	Test Scores Evaluated		Semester Hours of Credit Eligibility
	Number	Percentage	
With grade of A	0	0%	0
With grade of B	3	3%	9
Total eligible	3	3%	9
Not eligible	85	97%	0
Total	88	100%	9

English 316K: Masterworks of Literature

The College Board Advanced Placement (AP) Examination in Literature and Composition is a three-hour test divided into two portions; typically, the examination allows one hour and 15 minutes for the multiple-choice portion and one hour and 45 minutes for the essay portion. A College Board rating of 5 awards a student credit in English 316K with an A. With a College Board rating of 4, a student may claim credit in English 316K with a B. A rating of 3 merits credit (only) in English 316K. Ratings of 2 and 1 do not earn credit by examination.

Table 26 displays the results of the 899 scores for the English AP Examination in Literature and Composition evaluated at U.T. Austin during 1987-1988. Eighty-two percent (734 tests) of the total were eligible for credit. A total of 2,202 semester hours of credit eligibility resulted from this national testing program.

Table 26
Credit by Examination in English 316K: AP English
in Literature and Composition
1987-1988

Score	Test Scores Evaluated		Test Scores Generating Eligibility		Grade			Semester Hours of Credit Eligibility
	N	%	N	%	A	B	Credit Only	N
5	125	14%	125	17%	125	--	--	375
4	245	27%	245	33%	--	245	--	735
3	364	40%	364	50%	--	--	364	1,092
2,1	165	18%	0	0%	--	--	--	0
Total	899	99%*	734	100%	125	245	364	2,202

*This figure differs from 100% because of rounding error.

Table 27

Summary of Credit by Examination in English
1987-1988

Test and Course(s)	Test Scores Evaluated		Test Scores Generating Eligibility		Semester Hours of Credit Eligibility	
	N	%	N	%	N	%
ECT: E 306	7,789	84%	2,637	74%	7,911	70%
AP: E 306, 308	478	5%	195	5%	1,110	10%
Subtotal: 1st year	8,267	89%	2,832	79%	9,021	80%
CLEP: E 316K	88	1%	3	<1%	9	<1%
AP: E 316K	899	10%	734	21%	2,202	20%
Subtotal: 2nd year	986	11%	736	21%	2,208	20%
Total	9,254	100%	3,569	100%	11,232	100%

FRENCH

Three College Board examinations are used to award credit by examination in French at U.T. Austin: the Achievement Test in French Listening-Reading and two Advanced Placement (AP) Examinations in French--French Language and French Literature.

The more commonly used test, the College Board Achievement Test in French Listening-Reading, is available only on the U.T. Austin campus. This test is divided into two sections--a 20-minute taped listening portion and a 40-minute reading portion. Students who have not taken the test previously in an institutional administration are eligible to attempt to earn credit by means of this test. This test is required of all students who have knowledge of French, who have no college credit in French, and who intend to enroll in a U.T. Austin French course. It is possible for students to earn credit for the first four courses in the major 4-skill sequence: French 506, First-Year French I; French 507, First-Year French II; French 312K, Second-Year French I: Four Skills; French 312L, Second-Year French II: Four Skills--Literature.

During the 1987-1988 testing year, the Measurement and Evaluation Center administered 946 French Achievement Listening-Reading tests. Table 28 presents the results, by course, of those tests. The number of tests generating credit, the letter grades, and the number of semester hours generated for a specific course are recorded. Data on the same 946 tests are shown in a different format in Table 29; results are arranged by the combination of courses for which the more advanced students earned credit eligibility.

The 619 test scores that qualified for credit produced 5,792 semester hours of eligibility. The largest amount of credit eligibility was generated by scores on the 146 tests that merited the maximum amount of credit (all four courses) available from this test. This well-prepared group earned 2,336 semester hours of credit eligibility. In the second-ranked group on this test were the 295 test scores that earned credit for French 506 only with a total of 1,475 semester hours.

Table 28
Credit by Examination: Achievement Test in French Listening-Reading
1987-1988
(Number of Test Scores Evaluated: 946)

Course	Test Scores Generating Eligibility	Grade			Semester Hours of Credit Eligibility
		A	B	C	
506	619	351	128	140	3,095
507	324	163	75	86	1,620
312K	213	132	51	30	639
312L	146	91	22	33	438
Total	--	--	--	--	5,792

Table 29
Credit by Examination: Achievement Test in French Listening-Reading
1987-1988

Combination of Courses	Test Scores Evaluated		Semester Hours of Credit Eligibility	
	N	%	N	%
506, 507, 312K, 312L	146	15%	2,336	40%
506, 507, 312K	67	7%	871	15%
506, 507	111	12%	1,110	19%
506	295	31%	1,475	25%
Total eligible	619	65%	5,792	100%*
Not eligible	327	35%	0	0%
Total	946	100%	5,792	100%

*Because of rounding error, this percentage differs from that obtained by addition of the above four figures.

Table 30

Placement System for Scores Received After May 15, 1976, on the College Board Achievement Test in French Listening-Reading-- Credit by Examination in French

Composite Score	Credit and Grade				Register for
	506	507	312K	312L	
720-800	A	A	A	A	Upper Division Course
680-719	A	A	A	B	Upper Division Course
660-679	A	A	B	B	Upper Division Course
630-659	A	A	B	C	Upper Division Course
610-629	A	B	B	C	Upper Division Course
590-609	A	B	C	C	Upper Division Course
560-589	A	B	C		FR 312L, 312M, 312N, or 310L
540-559	A	C	C		FR 312L, 312M, 312N, or 310L
530-539	A	C			FR 312K or 310K
490-529	B	C			FR 312K or 310K
470-489	B				FR 508K
410-469	C				FR 508K
200-409	No Credit				FR 506 or 508K

The College Board AP Examination in French Language is approximately two hours and 30 minutes long. Listening and reading abilities are tested in the multiple-choice portion; the free-response portion evaluates writing and speaking skills. A College Board rating (score) of 5 on this examination qualifies a student for credit in the first four courses in the major sequence (French 506, 507, 312K, 312L), French 324K, and French 324M--all six courses with the letter grade of A. The student who earns a rating of 4 becomes eligible for the first four courses and French 324K with a grade of A in each course. A rating of 3 qualifies the student for credit in the first four courses with A's and credit in French 324K with a B. The lower rating of 2 merits credit for only French 506 and 507 with A's for each course. A rating of 1 is not eligible for credit in French.

The College Board AP Examination in French Literature is approximately three hours long. The multiple-choice section is between 70 and 90 minutes in length; the free-response section is between 90 and 105 minutes long. A College Board rating of 5 on this examination qualifies a student for credit in the first four courses in the major sequence (French 506, 507, 312K, 312L), French 324K, and French 321L--all six courses with the letter grade of A. The student who earned a rating of 4 would be eligible for the first four courses and French 321L, once again with the grade of A for each course. A rating of 3 qualifies the student for credit in the first four courses with A's and in 321L with a B. The lower rating of 2 merits credit for only French 506 and 507 with A's for each course. A rating of 1 is not eligible for credit in French.

The results of the two College Board AP French examinations are presented in Table 31. There were 53 test scores evaluated for the Language test with 43 test scores qualifying for 808 semester hours of credit eligibility. The nine test scores received from the Literature examination resulted in eight tests generating 146 semester hours of eligibility.

Table 31

Credit by Examination: AP in French Language or Literature
1987-1988

Score	Test Scores Evaluated	Test Scores Generating Eligibility	Courses					Semester Hours of Credit Eligibility
			506, 507	312K, 312L	324K	324M	321L	
Language								
5	9	9	9	9	9	9	--	198
4	4	4	4	4	4	--	--	76
3	26	26	26	26	26	--	--	494
2	4	4	4	--	--	--	--	40
1	10	0	--	--	--	--	--	0
Subtotal	53	43	43	39	39	9	--	808
Literature								
5	1	1	1	1	1	--	1	22
4	3	3	3	3	--	--	3	57
3	3	3	3	3	--	--	3	57
2	1	1	1	--	--	--	--	10
1	1	0	--	--	--	--	--	0
Subtotal	9	8	8	7	1	--	7	146
Total	62	51	51	46	40	9	7	954

The 1987-1988 program of credit by examination in French is documented in Table 32, which shows the numbers and percentages of test scores evaluated, tests generating eligibility, and semester hours of credit eligibility. Scores on the College Board Achievement Test in French Listening-Reading, administered by the Measurement and Evaluation Center, accounted for 93% of the volume in the testing program in French. This test had 619 test scores warranting credit; they produced 5,792 semester hours of credit eligibility. The 62 Advanced Placement Examinations included 51 with scores qualifying students for credit, while all five departmental tests yielded successful performances and 21 hours of credit eligibility. Overall, 6,767 semester hours of credit eligibility were generated by 675 (67%) of the 1,013 tests.

Table 32

Summary of Credit by Examination in French
1987-1988

Test	Test Scores Evaluated		Test Scores Generating Eligibility		Semester Hours of Credit Eligibility	
	N	%	N	%	N	%
Achievement	946	93%	619	92%	5,792	86%
AP	62	6%	51	8%	954	14%
Dep't: Miscellaneous	5	<1%	5	1%	21	<1%
Total	1,013	99%*	675	101%*	6,767	100%

*This figure differs from 100% because of rounding error.

GERMAN

Three College Board examinations are used to award credit by examination in German at U.T. Austin: the Achievement Test in German Listening-Reading, with additional questions constructed by the Department of Germanic Languages, and the Advanced Placement (AP) Examination in German Language.

The more commonly used test, the College Board Achievement Test in German Listening-Reading with the U.T. Austin items, is available only on the U.T. Austin campus. The College Board test is divided into two sections --a 20-minute taped listening portion and a 40-minute reading portion; an additional 30 minutes are allowed for the U.T. Austin items. Students who have not taken the test previously in an institutional administration are eligible to attempt to earn credit by means of this test. It is required of all students who have knowledge of German, who have no college credit in German, and who intend to enroll in a U.T. Austin German course. It is possible for students to earn credit for the first four German courses: German 506, First-Year German I-R (emphasis on reading) and I-S (emphasis on speaking/vocabulary/ grammar); German 507, First-Year German II; German 312K, Second-Year German I, and German 312L: Second-Year German II (each course with readings in the humanities and social sciences).

During the 1987-1988 testing year, the Measurement and Evaluation Center administered 353 Achievement tests in German Listening-Reading. Table 33 presents the results, by course, of those tests. The number of test scores generating credit, the letter grades, and the number of semester hours of credit eligibility generated for a specific course are recorded. Data on the same 353 tests are shown in a different format in Table 34; the results are arranged by combination of courses for which credit was generated.

The 207 tests that produced qualifying scores yielded 1,657 semester hours of credit eligibility. The largest segment of this eligible test volume was that of the 136 test scores that earned credit for German 506 only with a total of 680 semester hours.

The College Board AP Examination in German Language is 3 hours in length. Listening and reading abilities are tested in the multiple-choice portion; the free-response portion evaluates writing skills. A College Board rating of 5 on this examination qualifies a student for credit in the

Table 33
Credit by Examination: Achievement Test in German Listening-Reading
1987-1988
(Number of Test Scores Evaluated: 353)

Course	Test Scores Generating Eligibility	Grade			Semester Hours of Credit Eligibility
		A	B	C	
506	207	135	72	0	1,035
507	71	67	4	0	355
312K	64	39	25	0	192
312L	25	24	1	0	75
Total	--	--	--	--	1,657

Table 34
Credit by Examination: Achievement Test in German Listening-Reading
1987-1988

Combination of Courses	Test Scores Evaluated		Semester Hours of Credit Eligibility	
	N	%	N	%
506, 507, 312K, 312L	25	7%	400	24%
506, 507, 312K	39	11%	507	31%
506, 507	7	2%	70	4%
506	136	39%	680	41%
Total eligible	207	59%	1,657	100%
Not eligible	146	41%	0	0%
Total	353	100%	1,657	100%

first four German courses (506, 507, 312K, 312L), German 328, and 356--all six courses with the letter grade of A. The student who earns a rating of 4 becomes eligible for credit in the first four courses and German 328, once again with the grade of A for each course. Scores of 3, 2, or 1 do not qualify the student for credit in German. During the 1987-1988 testing year, four German Language AP scores of 5 were reported to U.T. Austin. Seven scores of 4 were reported, and nine scores with lower ratings (3, 2, 1) were reported. Based on the eleven eligible scores, 221 semester hours of credit eligibility were awarded.

Results of the total 1987-1988 credit-by-examination program in German are documented in Table 35, which shows the numbers and percentages of test scores evaluated, test scores generating eligibility, and semester hours of credit eligibility. The College Board Achievement Test in German Listening-Reading, with the additional U.T. Austin items, administered by the Measurement and Evaluation Center, accounted for 92% of the test volume in German. On this test, 207 scores warranted credit, or 91% of the total of 228 eligible test scores; these 207 scores produced 1,657 semester hours of credit eligibility--85% of the total of 1,955 semester hours of credit eligibility in German.

Table 35

Summary of Credit by Examination in German
1987-1988

Test	Test Scores Evaluated		Test Scores Generating Eligibility		Semester Hours of Credit Eligibility	
	N	%	N	%	N	%
Achievement	353	92%	207	91%	1,657	85%
AP	20	5%	11	5%	221	11%
Dep't: Miscellaneous	10	3%	10	4%	77	4%
Total	383	100%	228	100%	1,955	100%

GOVERNMENT

Government 310L: American Government

Two College Board tests are used by the U.T. Austin Department of Government for credit by examination in Government 310L: the College-Level Examination Program (CLEP) Subject Examination in American Government and the Advanced Placement Examination in Government and Politics - American. In addition to either test, a student must take the U.T. Austin Test for Credit in Texas Government, constructed locally by the department, before the composite score can be evaluated.

Eligible to take these optional examinations are individuals who have neither a passing nor a failing grade in Government 310L or its equivalent and have not taken the tests within the past six months.

During the 1987-1988 testing year, 938 American Government scores were received for evaluation. The Measurement and Evaluation Center administered 797 CLEP American Government examinations on the U.T. Austin campus; the remaining 50 CLEP scores were reported to the MEC from national administrations. There were 91 AP examination scores evaluated during this time period.

In addition to the scores evaluated from the CLEP and AP examinations, six students earned credit by examination by means of a successful performance on a departmental examination.

Table 36

Credit by Examination in Government
CLEP American Government and U.T. Austin Items
1987-1988

Eligible for Credit	Test Scores Evaluated		Semester Hours of Credit Eligibility
	Number	Percentage	
With grade of A	356	42%	1,068
With grade of B	180	21%	540
With grade of C	149	18%	447
Total eligible	685	81%	2,055
Not eligible	156	19%	0
Total	841	100%	2,055

Table 37
Credit by Examination in Government: AP Government and Politics - American
1987-1988

Score	Test Scores Evaluated		Test Scores Generating Eligibility		Grade			Semester Hours of Credit Eligibility
	N	%	N	%	A	B	C	N
5	9	10%	6	24%	5	1	0	18
4	17	19%	6	24%	5	1	0	18
3	43	47%	13	52%	8	5	0	39
2,1	22	24%	0	0%	0	0	0	0
Total	91	100%	25	100%	18	7	0	75

Table 38
Summary of Credit by Examination in Government
1987-1988

Test	Test Scores Evaluated		Test Scores Generating Eligibility		Semester Hours of Credit Eligibility	
	N	%	N	%	N	%
CLEP	841	90%	685	96%	2,055	96%
AP	91	10%	25	3%	75	3%
Dep't: Miscellaneous	6	1%	6	1%	18	1%
Total	938	101%*	716	100%	2,148	100%

*This figure differs from 100% because of rounding error.

HISTORY

Four different examinations are used at U.T. Austin to award credit by examination in history: the College Board Advanced Placement (AP) Examinations in European History and in American History and the U.T. Austin Tests for Credit in History 315K and in History 315L.

History 309K and 309L: Western Civilization in Medieval Times and Western Civilization in Modern Times

The College Board AP Examination in European History generally allows three hours of working time with one hour and 15 minutes for the multiple-choice section and one hour and 45 minutes for the free-response portion. For a College Board score of 5, a student is awarded credit for History 309K and 309L with the letter grade of A for each course. A score of 4 merits credit for both courses with the grade of B. A score of 3 is reviewed by the Department of History for possible credit for one or both courses. Scores of 2 or 1 are not eligible for credit.

Table 39 presents the results of scores from the College Board AP Examinations in European History that were evaluated during 1987-1988. The numbers and percentages of test scores evaluated and tests generating credit eligibility are shown, as well as the grades earned for both courses and the numbers of semester hours of credit eligibility generated. During this time period, 109 scores were evaluated; 56 (51%) tests produced a total of 309 semester hours of credit eligibility.

History 315K and 315L: The United States, 1492-1865 and The United States Since 1865

The College Board AP Examination in American History generally allows three hours of working time with one hour and 15 minutes for the multiple-choice section and one hour and 45 minutes for the free-response portion. For a College Board score of 5, a student is awarded credit for History 315K and 315L with the letter grade of A for each course. A score of 4 merits

Table 39

Credit by Examination in History 309K and 309L: AP European History
1987-1988

Score	Test Scores Evaluated		Test Scores Generating Eligibility		Course and Grade						Semester Hours of Credit Eligibility
					309K			309L			
	N	%	N	%	A	B	C	A	B	C	N
5	11	10%	11	20%	11	--	--	11	--	--	66
4	35	32%	35	63%	--	35	--	--	35	--	210
3	46	42%	10	18%	0	0	3	0	1	7	33
2,1	17	16%	0	0%	--	--	--	--	--	--	0
Total	109	100%	56	101%*	11	35	3	11	36	7	309

*This figure differs from 100% because of rounding error.

credit for both courses with the grade of B. A score of 3 is reviewed by the Department of History for possible credit for one or both courses. Scores of 2 or 1 are not eligible for credit.

Table 40 presents the results of scores from the College Board AP Examination in American History that were evaluated during 1987-1988. The numbers and percentages of test scores evaluated and test scores generating eligibility are shown, as well as the grades earned for both courses and the number of semester hours of credit eligibility generated. During this time period, 518 scores were evaluated; 265 (52%) test scores produced a total of 1,470 semester hours of credit eligibility.

Table 40

Credit by Examination in History 315K and 315L: AP American History
1987-1988

Score	Test Scores Evaluated		Test Scores Generating Eligibility		Course and Grade						Semester Hours of Credit Eligibility
					315K			315L			
	N	%	N	%	A	B	C	A	B	C	N
5	57	11%	57	22%	57	--	--	57	--	--	342
4	167	32%	167	63%	--	167	--	--	167	--	1,002
3	173	33%	41	15%	0	3	23	0	1	15	126
2,1	121	23%	0	0%	--	--	--	--	--	--	0
Total	518	99%*	265	100%	57	170	23	57	168	15	1,470

*This figure differs from 100% because of rounding error.

The U.T. Austin Tests for Credit in History 315K and 315L, constructed locally by the Department of History, are essay tests, each with three hours of working time allowed. These tests are administered only on the U.T. Austin campus. Eligible to take these optional tests are previously or currently enrolled students who have neither a passing nor a failing grade in the course(s) for which they are attempting to earn credit.

Tables 41 and 42 show the results of these on-campus administrations during 1987-1988. The numbers and percentages of test scores evaluated, letter grades, and semester hours of credit eligibility are presented.

Table 41
Credit by Examination in History 315K: U.T. Austin
1987-1988

Eligible for Credit	Test Scores Evaluated		Semester Hours of Credit Eligibility
	Number	Percentage	
With grade of A	0	0%	0
With grade of B	0	0%	0
With grade of C	4	44%	12
Total eligible	4	44%	12
Not eligible	5	56%	0
Total	9	100%	12

Table 42
Credit by Examination in History 315L: U.T. Austin
1987-1988

Eligible for Credit	Test Scores Evaluated		Semester Hours of Credit Eligibility
	Number	Percentage	
With grade of A	1	11%	3
With grade of B	0	0%	0
With grade of C	3	33%	9
Total eligible	4	44%	12
Not eligible	5	56%	0
Total	9	100%	12

Table 43 presents the results of the credit-by-examination program in history for the 1987-1988 testing year. Numbers and percentages of test scores evaluated, test scores generating credit eligibility, and semester hours of credit eligibility are shown. The College Board AP Examination in American History provided the largest amount of test volume in this subject; 518 test scores were reported to U.T. Austin from national administrations of this examination. This test comprised 80% of the total of 645 history scores evaluated during the year under consideration. Of the 645 history test scores evaluated, 329 (51%) yielded 1,803 semester hours of credit eligibility.

Table 43

Summary of Credit by Examination in History
1987-1988

Test and Course(s)	Test Scores Evaluated		Test Scores Generating Eligibility		Semester Hours of Credit Eligibility	
	N	%	N	%	N	%
AP: HIS 309K, 309L	109	17%	56	17%	309	17%
AP: HIS 315K, 315L	518	80%	265	81%	1,470	82%
U.T.: HIS 315K, 315L	18	3%	8	2%	24	1%
Total	645	100%	329	100%	1,803	100%

LATIN

Three tests are used to award credit by examination in Latin at U.T. Austin: the U.T. Austin Test for Credit in Latin and The College Board Advanced Placement (AP) Examinations in Latin (Vergil and Catullus-Horace).

Titles of the six Latin courses in which credit can be earned are as follows: Latin 506: First-Year Latin I; Latin 507: First-Year Latin II; Latin 311: Second-Year Latin I--Selected Roman Authors; Latin 312K: Second-Year Latin II--Vergil's Aeneid; Latin 312M: Second-Year Latin II--Prose; Latin 316: Second-Year Latin II--Lyric Poetry, Classsical and Medieval.

On the U.T. Austin Test for Credit in Latin, a student may attempt to earn credit for any/all of the six courses listed above. A suggested time of three hours is given for this essay test; additional time may be used if necessary. Table 44 displays the results of this test during the 1987-1988 testing year. The numbers and percentages of test scores evaluated and semester hours of credit eligibility generated are shown. The table does not show all of the possible combinations of courses because no student earned credit eligibility in all of the courses; the table shows the credit eligibility actually earned.

Of the 28 Latin tests administered by the Measurement and Evaluation Center, 21 (75%) merited credit. A total of 243 semester hours of credit eligibility was generated by means of this locally constructed examination.

The annual AP Latin examinations have three parts. There is a single multiple-choice section that serves for either Latin test and two free-response sections--one for the test on Vergil and one for the test on Catullus-Horace.

Credit in four Latin courses can be awarded for satisfactory scores on the AP Latin Vergil examination: Latin 506, 507, 311, and 312K. A College Board score of 5 on this test qualifies a student for credit for all four courses with the grade of A. A score of 4 allows a student credit eligibility with the grade of A for 506 and 507 and a grade of B for 311 and 312K. If a student earns a score of 3, the credit is the grade of B for the first two courses and the grade of C for the remaining two courses. College Board scores of 2 and 1 are not awarded any credit.

Table 44
Credit by Examination in Latin: U.T. Austin
1987-1988

Combination of Courses	Test Scores Evaluated		Semester Hours of Credit Eligibility	
	N	%	N	%
506, 507, 311, 312K, 312M	2	7%	32	13%
506, 507, 311, 312K	6	21%	96	40%
506, 507, 311	5	18%	65	27%
506, 507	2	7%	20	8%
506	6	21%	30	12%
Total eligible	21	75%*	243	100%
Not eligible	7	25%	0	0%
Total	28	100%	243	100%

*Because of rounding error, this percentage differs from that obtained by addition of the above four figures.

A satisfactory score on the AP Latin Catullus-Horace examination merits credit in four Latin courses: Latin 506, 507, 311, and 316. The grade of A is awarded in all four courses with a College Board score of 5. A score of 4 allows a student credit eligibility with the grade of A for 506 and 507 and a grade of B for 311 and 316. The student who earns a score of 3 is granted credit with a grade of B for the first two courses and a grade of C for the remaining two courses. College Board scores of 2 and 1 are not awarded credit eligibility.

Table 45 displays the results of the 1987-1988 evaluation of the AP Latin examinations. The number of scores received, test scores generating eligibility, courses in which credit was earned, and number of semester hours of credit eligibility are documented.

Table 45

Credit by Examination: AP in Latin Vergil or Catullus-Horace
1987-1988

Score	Test Scores Evaluated	Test Scores Generating Eligibility	Courses			Semester Hours of Credit Eligibility
			506, 507, 311	312K	316	
Vergil						
5	2	2	2	2	--	32
4	2	2	2	2	--	32
3	6	6	6	6	—	96
2,1	7	0	0	0	--	0
Subtotal	17	10	10	10	-	160
Catullus-Horace						
5	1	1	1	--	1	16
4	2	2	2	—	2	32
3	3	3	3	--	3	48
2,1	1	0	0	—	0	0
Subtotal	7	6	6	--	6	96
Total	24	16	16	10	6	256

Seventeen scores for the Latin-Vergil test were received during this testing year. Ten tests (59%) earned a total of 160 semester hours of credit eligibility. The other seven scores from this test did not merit credit

From the Catullus-Horace examination, seven scores were received. Six (86%) of these scores were awarded credit; one score was not high enough to merit credit eligibility.

Results of the total 1987-1988 credit-by-examination program in Latin are documented in Table 46, which shows the numbers and percentages of test scores evaluated, test scores generating eligibility, and semester hours of credit eligibility. The U.T. Austin Test for Credit in Latin, administered by the Measurement and Evaluation Center, accounted for 54% of the test volume in Latin. Overall, 37 (71%) of the 52 Latin test scores evaluated generated 499 semester hours of credit eligibility.

Table 46

Summary of Credit by Examination in Latin
1987-1988

Test	Test Scores Evaluated		Test Scores Generating Eligibility		Semester Hours of Credit Eligibility	
	N	%	N	%	N	%
U.T. Austin	28	54%	21	57%	243	49%
AP	24	46%	16	43%	256	51%
Total	52	100%	37	100%	499	100%

MATHEMATICS

Mathematics 301: College Algebra

Two tests are used by the U.T. Austin Department of Mathematics in its program of credit by examination in Mathematics 301. The first is the College Board College-Level Examination Program (CLEP) Subject Examination in College Algebra, which allows one hour and 30 minutes of working time. An additional hour of working time is allowed for the second test of 10 items prepared locally by the department.

Individuals who have not taken the tests within the past six months and have neither a passing nor a failing grade (nor a grade symbol) for Mathematics 301 are eligible to take these optional tests.

The results of credit by examination in Mathematics 301 for the 1987-1988 testing year are recorded in Table 47, which shows the numbers and percentages of test scores evaluated; also reported are the letter grades and number of semester hours of credit eligibility. All except two of the examinations were given on the U.T. Austin campus by the Measurement and Evaluation Center. The 14 (48%) scores that earned qualifying scores produced 42 semester hours of credit eligibility.

Table 47

Credit by Examination in Mathematics 301
CLEP College Algebra
1986-1987

Eligible for Credit	Test Scores Evaluated		Semester Hours of Credit Eligibility
	Number	Percentage	
With grade of A	5	17%	15
With grade of B	2	7%	6
With grade of C	7	24%	21
Total eligible	14	48%	42
Not eligible	15	52%	0
Total	29	100%	42

Note. Because eligibility for credit is not based on CLEP scores alone, no CLEP scores are listed.

Mathematics 305G: Elementary Functions and Co-ordinate Geometry

The U.T. Austin Department of Mathematics uses two College Board Achievement Tests for credit by examination in Mathematics 305G. The preferred test is Mathematics Level I, but Mathematics Level II may be used as an alternative. The Level I test is available in both institutional (on-campus) administrations and national administrations; the Level II test is offered only through national administrations. Both tests allow one hour of working time.

Most entry-level mathematics courses have as a prerequisite either a minimum satisfactory score on the Mathematics Level I (or Level II) or credit for a specified college-level mathematics course with a minimum satisfactory grade. The prerequisites are strictly enforced; they can be modified only by the undergraduate adviser in the Department of Mathematics. A score of 460 or higher on the Mathematics Level I/Level II test is a prerequisite for Chemistry 301, Computer Sciences 304P, and Computer Sciences 304F.

Table 48 presents the results of the 1987-1988 testing year administrations, institutionally and nationally, of the Mathematics Achievement Tests, both Level I and Level II. Numbers and percentages of test scores evaluated are displayed with the resulting number of letter grades and semester hours of credit eligibility shown as well.

The Measurement and Evaluation Center administered 5,464 (69%) of the Mathematics Achievement tests documented in this Special Report. There were 2,463 (31%) scores from national administrations--1,924 scores for the Mathematics Level I test and 539 scores for the Mathematics Level II test. Overall, in both institutional and national administrations, 7,927 scores from the Mathematics Achievement Tests were evaluated during the 1987-1988 testing year. A total of 3,185 (40%) test scores merited credit for Mathematics 305G, from which 9,555 semester hours of credit eligibility accrued.

Table 48

Credit by Examination in Mathematics 305G
Achievement Tests in Mathematics Level I and Mathematics Level II
1987-1988

Eligible for Credit	Test Scores Evaluated		Semester Hours of Credit Eligibility
	Number	Percentage	
With grade of A	847	11%	2,541
With grade of B	1,368	17%	4,104
With grade of C	970	12%	2,910
Total eligible	3,185	40%	9,555
Not eligible	4,742	60%	0
Total	7,927	100%	9,555

Note. Score ranges: 670-800 = A, 600-669 = B, 560-599 = C, 200-559 = no credit.

Mathematics 808A: Calculus I

The College Board College-Level Examination Program (CLEP) Subject Examination in Calculus with Elementary Functions allows one hour and 30 minutes of working time. Individuals who have not taken the test within the past six months and have neither a passing nor a failing grade for Mathematics 808A are eligible to take this optional test.

Results from institutional and national administrations of the CLEP Calculus test for the 1987-1988 testing year are shown in Table 49. Numbers and percentages of test scores evaluated are displayed along with letter grades and semester hours of credit eligibility. There were 62 CLEP Calculus scores evaluated during this time period; 49 test scores accrued 196 semester hours of credit eligibility. The Measurement and Evaluation Center administered all except five of these examinations on the U.T. Austin campus.

Table 49

Credit by Examination in Mathematics 808A: CLEP Calculus
1987-1988

Eligible for Credit	Test Scores Evaluated		Semester Hours of Credit Eligibility
	Number	Percentage	
With grade of A	32	52%	128
With grade of B	12	19%	48
With grade of C	5	8%	20
Total eligible	49	79%	196
Not eligible	13	21%	0
Total	62	100%	196

Note. Score ranges: 56-80 = A, 51-55 = B, 46-50 = C, 20-45 = no credit.

Mathematics 808A and 808B: Calculus I and II

Two College Board Advanced Placement (AP) Examinations are used in the credit-by-examination program for Mathematics 808A and 808B--the Mathematics AP Examinations in Calculus AB and in Calculus BC. Each of these examinations allots approximately three hours of working time. Each examination is divided into two sections; Section I consists of multiple-choice questions, and Section II consists of problems requiring written solutions. The two sections are allotted roughly equal timing.

On the Calculus AB examination, College Board scores of 5 and 4 merit 4 semester hours of credit for Mathematics 808A with the letter grade of A. A score of 3 is awarded a B for the course; scores of 2 and 1 do not yield credit eligibility.

Credit in two mathematics courses may be earned by successful scores on the Calculus BC examination. A score of 5 merits credit eligibility in Mathematics 808A and Mathematics 808B with the grade of A for each course. With a score of 4, a student earns eligibility for credit in Mathematics 808A with an A and in Mathematics 808B with a B. A College Board score of 3 qualifies the student for credit in both courses with a grade of B for each course. Scores of 2 or 1 do not yield credit eligibility.

A summary of results from the College Board AP Examinations in Mathematics for 1987-1988 is presented in Table 50. Numbers and percentages of test scores evaluated and test scores generating credit eligibility are shown along with letter grades and semester hours of credit eligibility. On the Calculus AB examination, 421 scores were evaluated, and 329 eligible test scores produced 1,316 semester hours of credit eligibility. With a smaller test volume of 162, the Calculus BC examination produced 125 eligible test scores and 1,000 semester hours of credit eligibility.

When results from the two College Board Mathematics AP tests are reviewed together, 583 scores were received from national administrations, 454 of which had qualifying scores--a success rate of 78%--which produced 2,316 semester hours of credit eligibility.

Table 50

Credit by Examination in Mathematics 808A and 808B
AP Examinations in Calculus AB and BC
1987-1988

Score	Test Scores Evaluated		Test Scores Generating Eligibility		Course and Grade				Semester Hours of Credit Eligibility
					808A		808B		
	N	%	N	%	A	B	A	B	N
Calculus AB									
5,4	189	32%	189	42%	189	—	—	—	756
3	140	24%	140	31%	—	140	—	—	560
2,1	92	16%	0	0%	—	—	—	—	0
Subtotal	421	72%	329	72%*	189	140	—	—	1,316
Calculus BC									
5	43	7%	43	9%	43	—	43	—	344
4	44	8%	44	10%	44	—	—	44	352
3	38	7%	38	8%	—	38	—	38	304
2,1	37	6%	0	0%	—	—	—	—	0
Subtotal	162	28%	125	28%	87	38	43	82	1,000
Total	583	100%	454	100%	276	178	43	82	2,316

*Because of rounding error, this percentage differs from that obtained by addition of the above three figures.

Results of the total U.T. Austin 1987-1988 credit-by-examination program in mathematics are documented in Table 51. Numbers and percentages are shown for test scores evaluated, test scores generating eligibility, and semester hours of credit eligibility. The two College Board Achievement tests in Mathematics, Level I and Level II, provided the largest portion of the mathematics test volume. During this time period, 7,927 Mathematics Achievement Test scores were evaluated--92% of the 8,612 scores for the year. The 3,185 qualifying scores from these two tests generated 9,555 semester hours of credit eligibility. With results from all 8,612 tests combined, 3,711 tests yielded scores eligible for credit--a success rate of 43% overall.

Table 51

Summary of Credit by Examination in Mathematics
1987-1988

Test and Course(s)	Test Scores Evaluated		Test Scores Generating Eligibility		Semester Hours of Credit Eligibility	
	N	%	N	%	N	%
CLEP: M 301	29	<1%	14	<1%	42	<1%
Mathematics Level I, II: M 305G	7,927	92%	3,185	86%	9,555	79%
CLEP: M 808A	62	1%	49	1%	196	2%
AP (AB): M 808A	421	5%	329	9%	1,316	11%
AP (BC): M 808A, 808B	162	2%	125	3%	1,000	8%
Dep't: Miscellaneous	11	<1%	9	<1%	33	<1%
Total	8,612	100%	3,711	99%*	12,142	100%

*This figure differs from 100% because of rounding error.

PHYSICS

Physics 302K and 302L (General Physics) and 102M and 102N (General Physics Laboratory I and II)

Two College Board tests are used to award credit by examination in Physics 302K, 302L, 102M, and 102N: The College Board Achievement Test in Physics and the College Board Advanced Placement (AP) Examination in Physics B.

The College Board Achievement Test in Physics allows one hour of working time. This optional test is available both in institutional administrations on the U.T. Austin campus and in College Board national administrations. For both types of administration, the results from the 1987-1988 testing year are presented in Table 52. The Measurement and Evaluation Center gave 18 Physics Achievement tests during this time period; the remaining 284 scores were reported to U.T. Austin from national administrations. On 159 (53%) of the 302

Table 52
Credit by Examination in Physics: Achievement Test in Physics
1987-1988

Eligible for Credit	Test Scores Evaluated		Semester Hours of Credit Eligibility
	Number	Percentage	
With grade of A	46	15%	368
With grade of B	43	14%	344
With grade of C	70	23%	560
Total eligible	159	53%*	1,272
Not eligible	143	47%	0
Total	302	100%	1,272

*Because of rounding error, this percentage differs from that obtained by addition of the above three figures.

Note. Score ranges: 690-800 = A, 630-689 = B, 570-629 = C, 200-569 = no credit.

test scores evaluated by the Measurement and Evaluation Center during 1987-1988, students earned 1,272 semester hours of credit eligibility.

The College Board Advanced Placement (AP) Examination in Physics B is three hours in length; the time is divided equally between a multiple-choice section and a free-response section. This optional test is available through national administrations.

College Board scores of 5 and 4 qualify the student for credit eligibility in Physics 302K, 302L, 102M, and 102N with a letter grade of A in each course. A score of 3 merits credit for each of the four courses with the grade of B. Scores of 2 and 1 are not eligible for credit.

Table 53 shows the results for the AP Examination in Physics B during the 1987-1988 testing year. Numbers and percentages of test scores evaluated and test scores generating eligibility are shown, as well as the resultant letter grades and semester hours of credit eligibility. On 47 (73%) of the 64 test scores evaluated by the Measurement and Evaluation Center, students earned 376 semester hours of credit eligibility.

Table 53
Credit by Examination in Physics: AP Physics B
1987-1988

Score	Test Scores Evaluated		Test Scores Generating Eligibility		Grade		Semester Hours of Credit Eligibility
	N	%	N	%	A	B	N
5,4	19	30%	19	40%	19	--	152
3	28	44%	28	60%	--	28	224
2,1	17	27%	--	--	--	--	0
Total	64	101%*	47	100%	19	28	376

*This figure differs from 100% because of rounding error.

Physics 303K and 103M: Engineering Physics I, or
Physics 301 and 101: Mechanics, or
Physics 317K and 117M: General Physics I

During the 1987-1988 testing year, two tests were used to award credit by examination for the physics courses listed above: the College Board Advanced Placement (AP) Examination in Physics C, Mechanics; and the U.T. Austin Test for Credit in Physics: Mechanics.

Students have a choice of the courses for which they may attempt to earn credit; course selection is usually based upon the student's degree requirements. The course options are Physics 303K and 103M, Physics 301 and 101, or Physics 317K and 117M.

The College Board AP Examination in Physics C, Mechanics, allows 45 minutes of working time for the multiple-choice section and 45 minutes of working time for the free-response section. This optional test is available through on-campus, institutional administrations and national administrations.

Results from 1987-1988 national and institutional administrations of the AP Examination in Physics C, Mechanics, are documented in Table 54. The institutionally administered tests are shown in a single row. The nationally administered tests are displayed by College Board AP Examination ratings. This table does not report the students' selection of specific courses because those choices will not be known until the students claim their credit in subsequent months or years. Numbers and percentages of test scores evaluated and test scores generating eligibility are shown, as well as letter grades and the number of semester hours of credit eligibility.

The Measurement and Evaluation Center administered 19 AP Examinations in Physics C, Mechanics, which were 30% of the scores evaluated during that time period. The remaining 44 scores were reported national administrations. Overall, 63 scores were evaluated, with 35 (56%) scores generating 140 semester hours of credit eligibility.

Table 54

Credit by Examination in Physics: AP Physics C - Mechanics
1987-1988

Test Category	Test Scores Evaluated		Test Scores Generating Eligibility		Grade				Semester Hours of Credit Eligibility
	N	%	N	%	A	B	C	No choice made*	N
Institutional	19	30%	2	6%	0	1	1	—	8
National Score									
5	7	11%	7	20%	7	--	--	—	28
4	13	21%	13	37%	13	--	--	—	52
3	13	21%	13	37%	0	--	--	13	52
2,1	11	17%	0	0%	---	--	--	--	0
Total	63	100%	35	100%	20	1	1	13	140

*A College Board score of 3 on this examination allows the choice of Physics 302K and 102M with grades of A, or Physics 303K and 103M or Physics 317K and 117M with grades of C. This publication does not record the students' actual choices.

Table 55
Credit by Examination in Physics: U.T. Austin Physics - Mechanics
1987-1988

Eligible for Credit	Test Scores Evaluated		Semester Hours of Credit Eligibility
	Number	Percentage	
With grade of A	0	0%	0
With grade of B	1	13%	4
With grade of C	4	50%	16
Total eligible	5	63%	20
Not eligible	3	38%	0
Total	8	101%*	20

*This figure differs from 100% because of rounding error.

Physics 303L and 103N: Engineering Physics II, or
Physics 316 and 116L: Electricity and Magnetism, or
Physics 317L and 117N: General Physics II

During the 1987-1988 testing year, two tests were used to award credit by examination for the physics courses listed above: the College Board Advanced Placement (AP) Examination in Physics C, Electricity and Magnetism; and the U.T. Austin Test for Credit in Physics: Electricity and Magnetism.

Students have a choice of the courses for which they may attempt to earn credit; course selection is usually based upon the student's degree requirements. The course options for the AP Examination in Physics C, Electricity and Magnetism, are Physics 303L and 103N, Physics 316 and 116L, or Physics 317L and 117N.

The College Board AP Examination in Physics C, Electricity and Magnetism, allows 45 minutes of working time for the multiple-choice section and

45 minutes of working time for the free-response section. This optional test is available through both on-campus, institutional administrations and national administrations.

The results from the 1987-1988 institutional and national administrations of the AP Examination in Physics C, Electricity and Magnetism, are documented in Table 56. The institutionally administered tests are shown in a single row. The nationally administered tests are displayed by College

Table 56

Credit by Examination in Physics: AP Physics C - Electricity and Magnetism
1987-1988

Test Category	Test Scores Evaluated		Test Scores Generating Eligibility		Grade				Semester Hours of Credit Eligibility
	N	%	N	%	A	B	C	No choice made*	N
Institutional	12	26%	4	16%	2	0	2	—	16
National Score									
5	5	11%	5	20%	5	—	--	--	20
4	10	22%	10	40%	—	10	—	--	40
3	6	13%	6	24%	0	--	--	6	24
2,1	13	28%	0	0%	---	--	--	--	0
Total	46	100%	25	100%	7	10	2	6	100

*A College Board score of 3 on this examination allows the choice of Physics 302L and 102N with grades of A, or Physics 303L and 103N or Physics 317L and 117N with grades of C. This publication, does not record the students' actual choices.

Board ratings. This table does not report the students' selection of specific courses. Numbers and percentages of test scores evaluated and test scores generating eligibility are shown, as well as letter grades and the number of semester hours of credit eligibility.

The Measurement and Evaluation Center administered 12 AP Examinations in Physics C, Electricity and Magnetism. The remaining 34 scores were reported from national administrations. Overall, 46 scores were evaluated, with 25 (54%) scores generating 100 semester hours of credit eligibility.

Table 57

Credit by Examination in Physics: U.T. Austin Physics - Electricity and Magnetism
1987-1988

Eligible for Credit	Test Scores Evaluated		Semester Hours of Credit Eligibility
	Number	Percentage	
With grade of A	0	0%	0
With grade of B	0	0%	0
With grade of C	1	17%	4
Total eligible	1	17%	4
Not eligible	5	83%	0
Total	6	100%	4

Table 58 documents the results of credit by examination in physics during the 1987-1988 testing year. Numbers and percentages are shown for test scores evaluated, test scores generating credit eligibility, and semester hours of credit eligibility generated. The College Board Achievement Test in Physics produced the majority of the volume--302 (62%) of the 489 test scores evaluated, 159 (58%) of the 272 test scores that qualified students for credit eligibility, 1,272 (67%) of the 1,912 semester hours of credit eligibility. The overall success rate in physics was 56%.

Table 58

Summary of Credit by Examination in Physics
1987-1988

Test	Test Scores Evaluated		Test Scores Generating Eligibility		Semester Hours of Credit Eligibility	
	N	%	N	%	N	%
Achievement	302	62%	159	58%	1,272	67%
AP: Physics B	64	13%	47	17%	376	20%
AP: Physics C, Mech	63	13%	35	13%	140	7%
AP: Physics C, E & M	46	9%	25	9%	100	5%
UT: Mechanics	8	2%	5	2%	20	1%
UT: E & M	6	1%	1	<1%	4	<1%
Total	489	100%	272	99%*	1,912	100%

*This figure differs from 100% because of rounding error.

PSYCHOLOGY

Psychology 301: Introduction to Psychology

The College Board College-Level Examination Program (CLEP) Subject Examination in General Psychology allows one hour and 30 minutes of working time. Individuals who have not taken the test within the past six months and have neither a passing nor a failing grade for Psychology 301 are eligible to take this optional examination.

Table 59 presents the results of credit by examination in psychology during the 1987-1988 testing year. The numbers and percentages of test scores evaluated and the number of semester hours of credit eligibility are shown. The Measurement and Evaluation Center administered 51 of the 54 CLEP psychology examinations recorded for the time period under consideration. The remaining three scores were reported to U.T. Austin from national administrations of the test. Of the test scores evaluated, 44 (81%) qualified for credit and generated 132 semester hours of credit eligibility.

Table 59
Summary of Credit by Examination in Psychology 301
1987-1988

Eligible for Credit	Test Scores Evaluated		Semester Hours of Credit Eligibility
	Number	Percentage	
With grade of A	7	13%	21
With grade of B	17	31%	51
With grade of C	20	37%	60
Total eligible	44	81%	132
Not eligible	10	19%	0
Total	54	100%	132

Note. Score ranges: 65-80 = A, 55-64 = B, 47-54 = C, 20-46 = no credit.

RUSSIAN

The Department of Slavic Languages used two types of tests in its 1987-1988 program of credit by examination: a College Board Achievement test and tests constructed locally by the department.

The College Board Achievement Test in Russian Listening-Reading is divided into two sections--a 20-minute taped listening portion with 40 questions and a 40-minute reading portion with 60 questions. This test is available only on the U.T. Austin campus.

Eligible to take this test are individuals who have not taken the test previously at an institutional administration. The test is required of all students with previous knowledge of Russian who intend to enroll in a U.T. Austin Russian course.

Credit by examination can be earned for the following six lower-division courses: Russian 506 (First-Year Russian I), Russian 507 (First-Year Russian II), Russian 312K (Second-Year Russian I), Russian 312L (Second-Year Russian II), and Russian 218A and 218B (Practice in Spoken Russian).

Credit is based on a combination of test scores and the results of a personal interview with a faculty member in the Department of Slavic Languages. Credit is reported to the Measurement and Evaluation Center throughout the year as students complete their interviews.

During the 1987-1988 testing year, the Measurement and Evaluation Center administered 21 College Board Achievement Tests in Russian Listening-Reading. Table 60 presents the results, by course, of those tests. The number of test scores generating credit, the letter grades, and the number of semester hours of credit eligibility generated for a specific course are recorded. Data on the same 21 tests are shown in a different format in Table 61; the results are arranged by combination of courses in which credit eligibility was generated.

The 20 (95%) tests that produced qualifying scores generated 233 semester hours of credit eligibility. Seven tests merited the maximum amount of credit eligibility (18 semester hours) available to students for successful performance on this test.

Table 60

Credit by Examination: Achievement Test in Russian Listening-Reading
1987-1988
(Number of Test Scores Evaluated: 21)

Course	Test Scores Generating Eligibility	Grade			Semester Hours of Credit Eligibility
		A	B	C	
506	20	15	1	4	100
507	13	13	0	0	65
312K	9	9	0	0	27
312L	9	8	1	0	27
218	7	7	0	0	14
Total	--	—	—	--	233

Table 61

Credit by Examination: Achievement Test in Russian Listening-Reading
1987-1988

Combination of Courses	Test Scores Evaluated		Semester Hours of Credit Eligibility	
	N	%	N	%
506, 507, 312K, 312L, 218	7	33%	126	54%
506, 507, 312K, 312L	2	9%	32	14%
506, 507, 312K	0	0%	--	--
506, 507	4	19%	40	17%
506	7	33%	35	15%
Total eligible	20	95%*	233	100%
Not eligible	1	5%	0	0%
Total	21	100%	233	100%

*Because of rounding error, this percentage differs from that obtained by addition of the above five figures.

Including the locally constructed tests, the overall 1987-1988 credit-by-examination program in Russian is documented in Table 62, which shows the numbers and percentages of test scores evaluated, test scores generating eligibility, and semester hours of credit eligibility. The College Board Achievement Test in Russian Listening-Reading constituted 88% of the Russian test volume. This test had 20 scores that warranted credit, which produced 233 semester hours of credit eligibility.

Table 62

Summary of Credit by Examination in Russian
1987-1988

Test	Test Scores Evaluated		Test Scores Generating Eligibility		Semester Hours of Credit Eligibility	
	N	%	N	%	N	%
Achievement	21	88%	20	87%	233	95%
Dep't: Miscellaneous	3	13%	3	13%	11	5%
Total	24	101%*	23	100%	244	100%

*This figure differs from 100% because of rounding error.

SOCIOLOGY

Sociology 302: Introduction to the Study of Society

The College Board College-Level Examination Program (CLEP) Subject Examination in Sociology allows one hour and 30 minutes of working time. Individuals who have not taken the test within the past six months and have neither a passing nor a failing grade in Sociology 302 or its equivalent are eligible to take this optional test.

During the 1987-1988 testing year, the Measurement and Evaluation Center administered 65 CLEP Sociology examinations on the U.T. Austin campus; two such scores were reported to U.T. Austin from national administrations of the examination.

Table 63 presents the results of credit by examination in sociology during the time period under review. Numbers and percentages of test scores evaluated are recorded with the corresponding numbers of semester hours of credit eligibility. A total of 67 CLEP Sociology scores were evaluated; 58 (87%) test scores qualified for 174 semester hours of credit eligibility.

Table 63
Summary of Credit by Examination in Sociology
1987-1988

Eligible for Credit	Test Scores Evaluated		Semester Hours of Credit Eligibility
	Number	Percentage	
With grade of A	17	25%	51
With grade of B	21	31%	63
With grade of C	20	30%	60
Total eligible	58	87%*	174
Not eligible	9	13%	0
Total	67	100%	174

*Because of rounding error, this percentage differs from that obtained by addition of the above three figures.

Note. Score ranges: 64-80 = A, 59-63 = B, 53-58 = C, 20-52 = no credit.

SPANISH

Three College Board examinations are used to award credit by examination in Spanish at U.T. Austin: the Achievement Test in Spanish Listening-Reading and two Advanced Placement (AP) Examinations in Spanish--Spanish Language and Spanish Literature.

The more commonly used test, the College Board Achievement Test in Spanish Listening-Reading, is available only on the U.T. Austin campus. This test is divided into two sections--a 20-minute taped listening portion and a 40-minute reading portion. Students who have not taken the test previously in an institutional administration are eligible to attempt to earn credit by means of this test. This test is required of all students who have knowledge of Spanish, who have no college credit in Spanish, and who intend to enroll in a U.T. Austin Spanish course. It is possible for students to earn credit for the first four Spanish courses: Spanish 506, First-Year Spanish I (Beginners' Spanish); Spanish 507, First-Year Spanish II (Intermediate Spanish); Spanish 312K: Second-Year Spanish I (Oral Expression, Reading, Composition); Spanish 312L: Second-Year Spanish II (Oral Expression, Reading, Composition).

During the 1987-1988 testing year, the Measurement and Evaluation Center administered 2,795 Spanish Achievement Listening-Reading tests. Table 64 presents the results, by course, of those tests. The number of test scores generating credit, the letter grades, and the number of semester hours of credit eligibility generated for a specific course are recorded. Data on the same 2,795 tests are shown in a different format in Table 65; results are arranged by combination of courses for which credit was generated. The 1,977 (71%) tests on which students earned qualifying scores produced 20,719 semester hours of credit eligibility. The largest segment of this eligible test volume was that of the 733 test scores that earned credit for Spanish 506 only. The second-ranked group was the 674 that merited the maximum amount of credit eligibility (16 semester hours) available for successful performance on this test. This well-prepared group earned 10,784 semester hours of credit eligibility, 52% of the total of 20,719 semester hours.

Table 64
Credit by Examination: Achievement Test in Spanish Listening-Reading
1987-1988
(Number of Test Scores Evaluated: 2,795)

Course	Test Scores Generating Eligibility	Grade			Semester Hours of Credit Eligibility
		A	B	C	
506	1,977	1,074	391	512	9,885
507	1,244	729	201	314	6,220
312K	864	424	209	155	2,592
312L	674	316	155	203	2,022
Total	--	--	--	--	20,719

Table 65
Credit by Examination: Achievement Test in Spanish Listening-Reading
1987-1988

Combination of Courses	Test Scores Evaluated		Semester Hours of Credit Eligibility	
	N	%	N	%
506, 507, 312K, 312L	674	24%	10,784	52%
506, 507, 312K	190	7%	2,470	12%
506, 507	380	14%	3,800	18%
506	733	26%	3,665	18%
Total eligible	1,977	71%	20,719	100%
Not eligible	818	29%	0	0%
Total	2,795	100%	20,719	100%

Table 66

Placement System for Scores Received After April 1, 1987, on the College Board Achievement Test in Spanish Listening-Reading--Credit by Examination in Spanish

Composite Score	Credit and Grade				Register for
	506	507	312K	312L	
750-800	A	A	A	A	Before enrolling in upper division courses, register for SPN 315M, SPN 315N, or SPN 318.
710-749	A	A	A	B	
690-709	A	A	B	B	
640-689	A	A	B	C	
630-639	A	A	C	C	
610-629	A	A	C		SPN 312L
570-609	A	B	C		SPN 312L
550-569	A	B			SPN 312K
520-549	A	C			SPN 312K
490-519	B	C			SPN 312K
460-489	B				SPN 508K
420-459	C				SPN 508K
200-419	No Credit				SPN 508K or 506

The College Board AP Examination in Spanish Language is approximately two hours and 30 minutes long. Listening and reading abilities are tested in the multiple-choice portion; the free-response portion evaluates writing and speaking skills. A College Board score of 5 on this examination qualifies a student for credit in the first four Spanish courses (506, 507, 312K, 312L), Spanish 319 and 327--all six courses with the letter grade of A. The student who earns a score of 4 becomes eligible for A's in the first four courses and B's in Spanish 319 and 327. A score of 3 qualifies the student for credit in each of the first four courses with the grade of A and in Spanish 319 with a grade of B. The score of 2 merits credit in the first three Spanish courses with an A for each course. A rating of 1 does not qualify the student for credit in Spanish.

The College Board AP Examination in Spanish Literature is approximately three hours long. Between 70 and 90 minutes are allotted to the multiple-choice section; the free-response section is allotted between 90 and 100 minutes. A College Board score of 5 on this examination qualifies a student for credit in the first four Spanish courses, Spanish 315N and 327--all six courses with the letter grade of A. The student who earns a score of 4 becomes eligible for the letter grade of A in the first four courses and for the letter grade of B in Spanish 315N and 327. A score of 3 qualifies the student for credit in the first four courses with A's and credit for 315N with a B. The score of 2 yields credit in the first three courses with an A for each course. A rating of 1 yields no credit in Spanish.

The results of the two College Board AP Spanish examinations are presented in Table 67. A total of 114 test scores were evaluated for the Spanish Language test with 106 test scores earning 2,023 semester hours of credit eligibility. Fourteen test scores were evaluated from the Spanish Literature examination, all of which merited credit; they produced 281 semester hours of credit eligibility. Combined, 120 of the 128 AP scores evaluated at U.T. Austin yielded 2,304 semester hours of credit eligibility in Spanish.

Table 67

Credit by Examination: AP in Spanish Language or Literature
1987-1988

Score	Test Scores Evaluated	Test Scores Generating Eligibility	Courses					Semester Hours of Credit Eligibility
			506, 507, 312K	312L	315N	319	327	
Language								
5	24	24	24	24	--	24	24	528
4	23	23	23	23	--	23	23	506
3	37	37	37	37	--	37	--	703
2	22	22	22	--	--	--	--	286
1	8	0	--	--	--	--	--	0
Subtotal	114	106	106	84	--	84	47	2,023
Literature								
5	1	1	1	1	1	--	1	22
4	6	6	6	6	6	--	6	132
3	6	6	6	6	6	--	--	114
2	1	1	1	--	--	--	--	13
1	0	0	--	--	--	--	--	0
Subtotal	14	14	14	13	13	--	7	281
Total	128	120	120	97	13	84	54	2,304

Results of the total 1987-1988 credit-by-examination program in Spanish are documented in Table 68, which shows the numbers and percentages of test scores evaluated, test scores generating eligibility, and semester hours of credit eligibility. The College Board Achievement Test in Spanish Listening-Reading, administered by the Measurement and Evaluation Center, accounted for 95% of the test volume in Spanish. On this test, 1,977 scores warranted credit. The successful Achievement tests produced 20,719 semester hours of credit eligibility--90% of the total of 23,092 semester hours of credit eligibility in Spanish.

Table 68

Summary of Credit by Examination in Spanish
1987-1988

Test	Test Scores Evaluated		Test Scores Generating Eligibility		Semester Hours of Credit Eligibility	
	N	%	N	%	N	%
Achievement	2,795	95%	1,977	93%	20,719	90%
AP	128	4%	120	6%	2,304	10%
Dep't: Miscellaneous	23	1%	23	1%	69	<1%
Total	2,946	100%	2,120	100%	23,092	100%

SUMMARY

This Special Report documents the results of U.T. Austin's program of credit by examination during the 1987-1988 testing year. The data present a basis for a comprehensive picture of the impact of the program on this campus. The examinations covered 49 subject areas with 159 courses taught in 35 departments/divisions in eight colleges and schools of the University: Business Administration, Communication, Education, Engineering, Fine Arts, Liberal Arts, Natural Sciences, and Nursing.

Evaluation of 26,190 test scores is recorded in this report. Because many students took more than one test, the total number of tests exceeds the actual number of students who attempted to earn credit by examination.

On 12,848 (49%) of these tests, students achieved scores high enough to qualify for 69,762 semester hours of credit eligibility. Conversely, on 13,342 (51%) of these tests, students' scores were too low to warrant credit by examination.

During 1987-1988, there was an increase of 1% over the preceding year in the number of test scores evaluated; however, there was a 4% decrease in the number of semester hours of credit eligibility. Across the five years from 1983-1984 through 1987-1988, there has been a 21% increase in the number of test scores evaluated.

The reader should be aware that no attempt was made in this report to document the semester hours of credit reported by the Measurement and Evaluation Center (MEC) to the Registrar's office for this testing year.

Table 69 and Figure 1 display the results of tests in the 10 subjects in which the majority of the students were tested during 1987-1988: biology, chemistry, English, French, German, government, history, mathematics, physics, and Spanish. This table shows the numbers and percentages of test scores evaluated for each subject, along with the numbers and percentages of tests generating credit and the semester hours of credit eligibility generated in each area. Figure 1 compares test volume and semester hours generated among the same 10 subjects.

Table 69

Summary of Credit by Examination at U.T. Austin:
Test Volume and Credit Eligibility
1987-1988

Subject	Test Scores Evaluated		Test Scores Generating Credit Eligibility		Semester Hours of Credit Eligibility	
	N	%	N	%	N	%
Biology	238	1%	162	1%	987	1%
Chemistry	739	3%	288	2%	1,017	1%
English	9,254	35%	3,569	28%	11,232	16%
French	1,013	4%	675	5%	6,767	10%
German	383	2%	228	2%	1,955	3%
Government	938	4%	716	6%	2,148	3%
History	645	2%	329	3%	1,803	3%
Mathematics	8,612	33%	3,711	29%	12,142	17%
Physics	489	2%	272	2%	1,912	3%
Spanish	2,949	11%	2,120	17%	23,092	33%
Subtotal	25,260	96%*	12,070	94%*	63,055	90%
All other subjects	930	4%	778	6%	6,707	10%
Total	26,190	100%	12,848	100%	69,762	100%

*Because of rounding error, this percentage differs from that obtained by addition of the above ten figures.

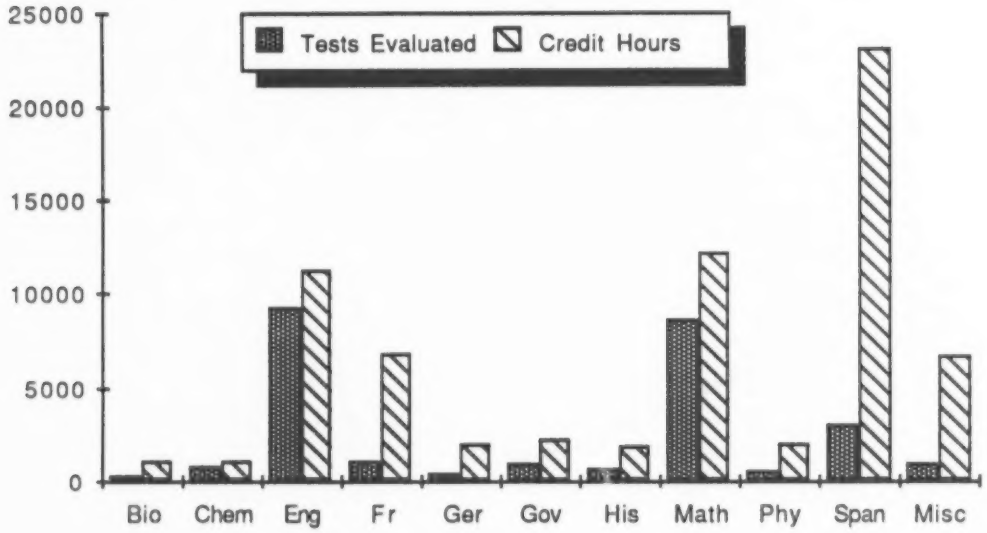

Figure 1. This figure displays test volume and semester hours of credit eligibility generated in the 10 major subject areas and in a miscellaneous category for all other subjects.

Those 10 subjects accounted for 25,260 examinations. That number represents 96% of the total test volume during 1987-1988, with all other subjects making up the remaining 4%. With satisfactory scores on 12,070 tests, those 10 high volume subjects also produced most of the credit eligibility generated by the program during 1987-1988: 63,055 semester hours--90% of the total of 69,762.

Three subjects stand out as the ones in which students most often attempted to earn credit by examination: English and Spanish in the College of Liberal Arts and mathematics in the College of Natural Sciences. During the 1987-1988 testing year, 20,815 (79%) of the 26,190 test scores evaluated were in those three subjects. In combination, those three subjects provided 73% of the test scores generating credit eligibility. As one might expect, those three areas also generated the majority of semester hours of credit eligibility: 46,465, or 67% of the total semester hours.

Table 70 compares results from the 1987-1988 year by subject with those from the 1986-1987 testing year. Numbers of test scores evaluated, test scores generating credit, and semester hours of credit eligibility are shown, as well as differences between the two years. The 10 subjects that generated the majority of the test volume are listed discretely; results of tests in all other subjects are combined.

The total of 26,190 test scores were evaluated during the 1987-1988 testing year compared to a total of 26,023 during the preceding year--an increase in volume of 167 (1%) tests. At the same time, 12,848 test scores generated credit eligibility in 1987-1988, a decrease of 666 (-5%) from the 13,514 succcessful tests in 1986-1987. The number of semester hours of credit eligibility generated decreased 4%, 3,248 fewer hours, from 73,010 to 69,762.

In English, the largest subject area in test volume, there was an increase of 8 (<1%) in the number of test scores evaluated during 1987-1988, and an 8% decrease in the number of test scores meriting credit. This decrease of qualifying test scores resulted in a decrease of 1,704 (-13%) in the number of semester hours of credit eligibility earned.

As a subject, mathematics also experienced a decrease over the two years. There were 63 (-1%) fewer test scores evaluated during 1987-1988, while 37 (-1%) fewer test scores generated credit eligibility and, as a consequence, the number of semester hours earned decreased by 94 (-1%).

Spanish had a decrease of 53 (2%) in its test population. Spanish test scores generating credit decreased by 405 (-16%), while the number of semester hours of credit eligibility earned by the successful students decreased by 2,531 (-10%).

In history, an additional 20 scores brought that subject's testing volume up to 645—an increase of 3%. There were 329 tests meriting credit -- a decrease of 2 (-1%)--and a total of 1,803 semester hours of credit eligibility--a decrease of -2%. Government had an increase of 205 (28%) in

Table 70
Comparisons, by Subject, Including Numbers of Test Scores Evaluated, Tests Generating Credit Eligibility, Semester Hours of Credit Eligibility, and Differences Between 1986-1987 and 1987-1988

Subject	Test Scores Evaluated				Test Scores Generating Eligibility				Semester Hours of Credit Eligibility			
	'86-'87	'87-'88	Difference		'86-'87	'87-'88	Difference		'86-'87	'87-'88	Difference	
	N	N	N	%	N	N	N	%	N	N	N	%
Biology	266	238	-28	-11%	202	162	-40	-20%	1,500	987	-513	-34%
Chemistry	747	739	-8	-1%	279	288	9	3%	964	1,017	53	5%
English	9,246	9,254	8	<1%	3,893	3,569	-324	-8%	12,936	11,232	-1,704	-13%
French	993	1,013	20	2%	696	675	-21	-3%	7,086	6,767	-319	-5%
German	422	383	-39	-9%	201	228	27	13%	1,818	1,955	137	8%
Government	733	938	205	28%	610	716	106	17%	1,830	2,148	318	17%
History	625	645	20	3%	331	329	-2	-1%	1,848	1,803	-45	-2%
Mathematics	8,675	8,612	-63	-1%	3,748	3,711	-37	-1%	12,236	12,142	-94	-1%
Physics	478	489	11	2%	284	272	-12	-4%	1,936	1,912	-24	-1%
Spanish	3,002	2,949	-53	-2%	2,525	2,120	-405	-16%	25,623	23,092	-2,531	-10%
Subtotal	25,187	25,260	73	<1%	12,769	12,070	-699	-5%	67,777	63,055	-4,722	-7%
All other subjects	836	930	94	11%	745	778	33	4%	5,233	6,707	1,474	28%
Total	26,023	26,190	167	1%	13,514	12,848	-666	-5%	73,010	69,762	-3,248	-4%

test volume. The 716 government test scores generating credit, an increase of 17%, produced 2,148 semester hours of credit.

Test volume in German decreased by 39 (-9%) tests. The number of test scores generating credit increased by 27 (13%). There was an increase in semester hours of credit eligibility--137 more hours for a total of 1,955 hours.

Test volume in French showed an increase of 20 (2%), from 993 to 1,013 tests. Twenty-one fewer test scores warranted credit with the resulting total of 6,767 semester hours earned, a decrease of -5%.

Chemistry had a one percent decrease in test volume. There was an increase of 9 (3%) in the number of test scores meriting credit; a total of 1,017 semester hours of credit eligibility was produced, a five percent increase over the preceding year.

Test volume decreased by 28 in biology; the number of test scores generating credit decreased by 40. There was a decrease of 513 (-34%) in the number of semester hours of credit eligibility earned in 1987-1988.

Physics showed an increase of 11 (2%) in test volume, a decrease of four percent in test scores generating credit, and a decrease of 24 (-1%) in the amount of credit eligibility earned by the students.

Tests in all other subjects combined increased from 836 to 930, a gain of 94 (11%) in test volume, with 778 test scores producing a total of 6,707 semester hours of credit eligibility.

Also presented by subject areas, Table 71 and Figure 2 provide a five-year summary of credit by examination at U.T. Austin. Numbers for test scores evaluated and semester hours of credit eligibility are recorded for the years 1983-1984 through 1987-1988. Once again, the 10 largest volume subjects are shown individually, with all other subjects merged. Across the five years, there has been a continued increase in the test volume--21,608 test scores in 1983-1984 to 26,190 test scores in 1987-1988, a 21% increase. The number of semester hours of credit peaked in 1986-1987 with

Table 71
Five-Year Summary of Credit by Examination at U.T. Austin: Numbers of Test Scores Evaluated and Semester Hours of Credit Eligibility, 1983-1988

Subject	1983-1984		1984-1985		1985-1986		1986-1987		1987-1988	
	Test Scores	Semester Hours of Credit	Test Scores	Semester Hours of Credit	Test Scores	Semester Hours of Credit	Test Scores	Semester Hours of Credit	Test Scores	Semester Hours of Credit
Biology	223	924	206	999	218	1,095	266	1,500	238	987
Chemistry	700	655	686	778	680	813	747	964	739	1,017
English	6,957	9,252	8,166	10,791	9,286	12,051	9,246	12,936	9,254	11,232
French	769	5,724	852	6,094	904	6,292	993	7,086	1,013	6,767
German	290	2,226	344	2,862	340	2,694	422	1,818	383	1,955
Government	909	1,740	611	1,398	688	1,551	733	1,830	938	2,148
History	272	666	475	1,359	512	1,482	625	1,848	645	1,803
Mathematics	8,032	9,348	8,959	11,076	9,083	11,593	8,675	12,236	8,612	12,142
Physics	337	1,348	373	1,452	448	1,672	478	1,936	489	1,912
Spanish	2,266	20,883	2,585	23,181	2,758	23,468	3,002	25,623	2,949	23,092
Subtotal	20,755	52,766	23,257	59,990	24,917	62,711	25,187	67,777	25,260	63,055
All other subjects	853	3,201	812	3,630	733	3,487	836	5,233	930	6,707
Total	21,608	55,967	24,069	63,620	25,650	66,198	26,023	73,010	26,190	69,762

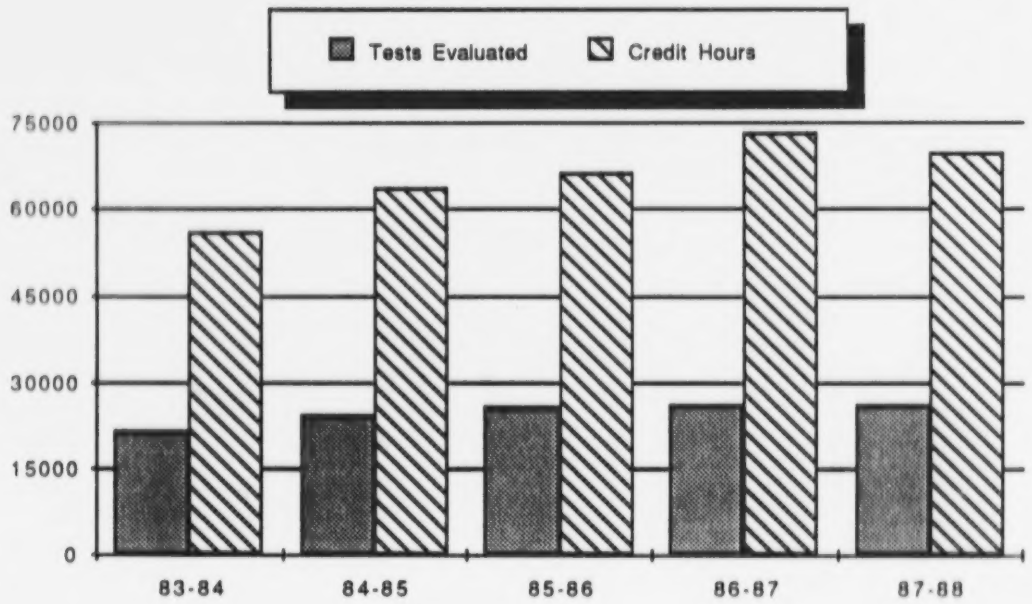

Figure 2. This figure provides a five-year summary of the results of the program of credit by examination at U.T. Austin from academic years 1983-1984 through 1987-1988.

a total of 73,010. There were 3,248 (-4%) fewer semester hours of credit generated in 1987-1988.

In Tables 72-79, the results of examinations in the eight colleges and schools are presented separately. Each table in this series shows the subject areas, as well as the numbers and percentages of test scores evaluated, test scores generating credit eligibility, and semester hours of credit eligibility. Table 80 summarizes, alphabetically by college and school, the data from the eight tables.

The College of Liberal Arts ranked first in test volume with 15,831 tests--60% of the total volume of 26,190 tests and 53,008 (76%) of the total number of semester hours of credit eligibility. When one recalls that test

scores from two of the largest volume tests (College Board Achievement Tests in English Composition and in Spanish Listening-Reading) were recorded in the College of Liberal Arts, it is not surprising that the majority of the test scores evaluated during the year were in this college. The 10,184 (39%) tests in the College of Natural Sciences placed it in second rank; 16,271 (23%) semester hours of credit eligibility accrued. The number of examinations in mathematics is largely responsible for this high test volume.

Table 72

College of Business Administration
Summary, by Subject, of Credit by Examination
1987-1988

Subject	Test Scores Evaluated		Test Scores Generating Credit Eligibility		Semester Hours of Credit Eligibility	
	N	%	N	%	N	%
Accounting	5	7%	4	20%	12	20%
Data Processing and Analysis	67	89%	13	65%	39	65%
International Business	3	4%	3	15%	9	15%
Total	75	100%	20	100%	60	100%

Table 73

College of Communication
Summary, by Subject, of Credit by Examination
1987-1988

Subject	Test Scores Evaluated		Test Scores Generating Credit Eligibility		Semester Hours of Credit Eligibility	
	N	%	N	%	N	%
Journalism	2	100%	2	100%	6	100%
Total	2	100%	2	100%	6	100%

Table 74

College of Education
Summary, by Subject, of Credit by Examination
1987-1988

Subject	Test Scores Evaluated		Test Scores Generating Credit Eligibility		Semester Hours of Credit Eligibility	
	N	%	N	%	N	%
Curriculum and Instruction	1	50%	1	50%	3	50%
Health Education	1	50%	1	50%	3	50%
Total	2	100%	2	100%	6	100%

Table 75
College of Engineering
Summary, by Subject, of Credit by Examination
1987-1988

Subject	Test Scores Evaluated		Test Scores Generating Credit Eligibility		Semester Hours of Credit Eligibility	
	N	%	N	%	N	%
Aerospace Engineering	1	5%	1	7%	3	7%
Electrical Engineering	17	89%	13	87%	39	87%
Engineering Mechanics	1	5%	1	7%	3	7%
Total	19	99%*	15	101%*	45	101%*

* This figure differs from 100% because of rounding error.

Table 76
College of Fine Arts
Summary, by Subject, of Credit by Examination
1987-1988

Subject	Test Scores Evaluated		Test Scores Generating Credit Eligibility		Semester Hours of Credit Eligibility	
	N	%	N	%	N	%
Art	3	14%	3	15%	9	15%
Drama	10	48%	10	50%	30	50%
Music	8	38%	7	35%	21	35%
Total	21	100%	20	100%	60	100%

Table 77

College of Liberal Arts
Summary, by Subject, of Credit by Examination
1987-1988

Subject	Test Scores Evaluated		Test Scores Generating Credit Eligibility		Semester Hours of Credit Eligibility	
	N	%	N	%	N	%
African and Afro-American Studies	2	<1%	2	<1%	6	<1%
Arabic	2	<1%	2	<1%	8	<1%
Archaeology	1	<1%	1	<1%	3	<1%
Chinese	235	1%	228	2%	3,990	8%
Danish	5	<1%	5	<1%	25	<1%
Dutch	10	<1%	10	<1%	56	<1%
Economics	122	1%	107	1%	465	1%
English	9,254	58%	3,569	43%	11,232	21%
European Studies	1	<1%	1	<1%	3	<1%
French	1,013	6%	675	8%	6,767	13%
German	383	2%	228	3%	1,955	4%
Government	938	6%	716	9%	2,148	4%
Greek	12	<1%	12	<1%	74	<1%
Hebrew	8	<1%	8	<1%	78	<1%
Hindi	7	<1%	7	<1%	32	<1%
History	645	4%	329	4%	1,803	3%

(continued on next page)

Table 77 (continued)

College of Liberal Arts

Subject	Test Scores Evaluated		Test Scores Generating Credit Eligibility		Semester Hours of Credit Eligibility	
	N	%	N	%	N	%
Italian	11	<1%	11	<1%	45	<1%
Japanese	8	<1%	8	<1%	39	<1%
Latin	52	<1%	37	<1%	499	<1%
Norwegian	3	<1%	3	<1%	15	<1%
Oriental and African Languages and Literature	1	<1%	1	<1%	3	<1%
Persian	6	<1%	6	<1%	23	<1%
Philosophy	1	<1%	1	<1%	3	<1%
Portuguese	11	<1%	11	<1%	64	<1%
Psychology	54	<1%	44	1%	132	<1%
Russian	24	<1%	23	<1%	244	<1%
Sociology	67	<1%	58	1%	174	<1%
Spanish	2,949	19%	2,120	26%	23,092	44%
Swedish	5	<1%	5	<1%	25	<1%
Turkish	1	<1%	1	<1%	5	<1%
Total	15,831	97%*	8,229	98%*	53,008	98%*

* This figure differs from 100% because of rounding error.

Table 78
College of Natural Sciences
Summary, by Subject, of Credit by Examination
1987-1988

Subject	Test Scores Evaluated		Test Scores Generating Credit Eligibility		Semester Hours of Credit Eligibility	
	N	%	N	%	N	%
Astronomy	1	<1%	1	<1%	3	<1%
Biology	238	2%	162	4%	987	6%
Chemistry	739	7%	288	6%	1,017	6%
Computer Sciences	104	1%	69	2%	207	1%
Geology	1	<1%	1	<1%	3	<1%
Mathematics	8,612	85%	3,711	82%	12,142	75%
Physics	489	5%	272	6%	1,912	12%
Total	10,184	100%	4,504	100%	16,271	100%

Table 79
School of Nursing
Summary, by Subject, of Credit by Examination
1987-1988

Subject	Test Scores Evaluated		Test Scores Generating Credit Eligibility		Semester Hours of Credit Eligibility	
	N	%	N	%	N	%
Nursing	56	100%	56	100%	306	100%
Total	56	100%	56	100%	306	100%

Table 80

Summary, by College/School, of Results of U.T. Austin's Program of Credit by Examination 1987-1988

College/School	Test Scores Evaluated		Test Scores Generating Credit Eligibility		Semester Hours of Credit Eligibility	
	N	%	N	%	N	%
Business Administration	75	<1%	20	<1%	60	<1%
Communication	2	<1%	2	<1%	6	<1%
Education	2	<1%	2	<1%	6	<1%
Engineering	19	<1%	15	<1%	45	<1%
Fine Arts	21	<1%	20	<1%	60	<1%
Liberal Arts	15,831	60%	8,229	64%	53,008	76%
Natural Sciences	10,184	39%	4,504	35%	16,271	23%
Nursing	56	<1%	56	<1%	306	<1%
Total	26,190	99%*	12,848	99%*	69,762	99%*

*This figure differs from 100% because of rounding error.

Table 81 is ordered by testing category; it shows numbers and percentages of test scores evaluated, test scores generating credit eligibility, and semester hours of credit eligibility. The percentages in Table 81 and in Figure 3 compare the data in each category to the results of the testing program as a whole.

Several observations can be made about the results of the five different testing categories covered in this report. First, institutional, on-campus group administrations considerably outnumbered the other four

Table 81

Summary, by Testing Category, of Results of U.T. Austin's Program of Credit by Examination
1987-1988

Subject	Test Scores Evaluated		Test Scores Generating Credit Eligibility		Semester Hours of Credit Eligibility	
	N	%	N	%	N	%
Institutional Administrations	17,265	66%	7,740	60%	46,952	67%
Departmental Administrations	263	1%	254	2%	1,186	2%
National Administrations of CLEP Subject Examinations	56	<1%	49	<1%	151	<1%
National Administrations of AP Examinations	3,465	13%	2,282	18%	13,174	19%
National Administrations of Achievement Tests	5,141	20%	2,523	20%	8,299	12%
Total	26,190	100%	12,848	100%	69,762	100%

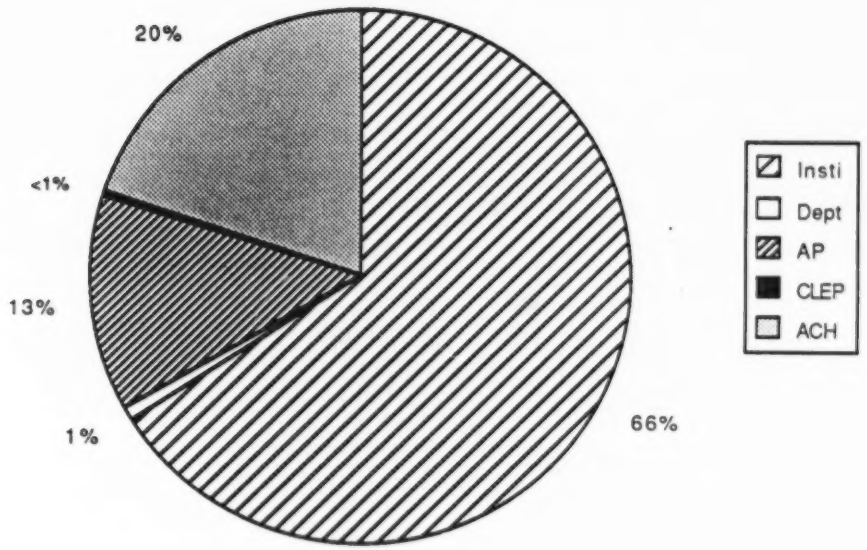

Figure 3. This figure shows the percentages of test scores evaluated by the Measurement and Evaluation Center in each of five categories of test administration.

categories; its 17,265 tests were responsible for 66% of the test volume documented in this Special Report. This category was also the source of the highest percentage (60%) of credit eligibility generated in all five categories of U.T. Austin's program of credit by examination. Credit eligibility was established by 7,740 institutional examinations, which represented 60% of the total of 12,848 test scores generating credit eligibility.

National administrations of College Board Achievement Tests ranked second in comparisons of test volume and credit eligibility. The evaluation of 5,141 scores yielded 8,299 semester hours of credit eligibility. The 2,523 scores warranting credit were 20% of the total number of test scores that generated credit eligibility.

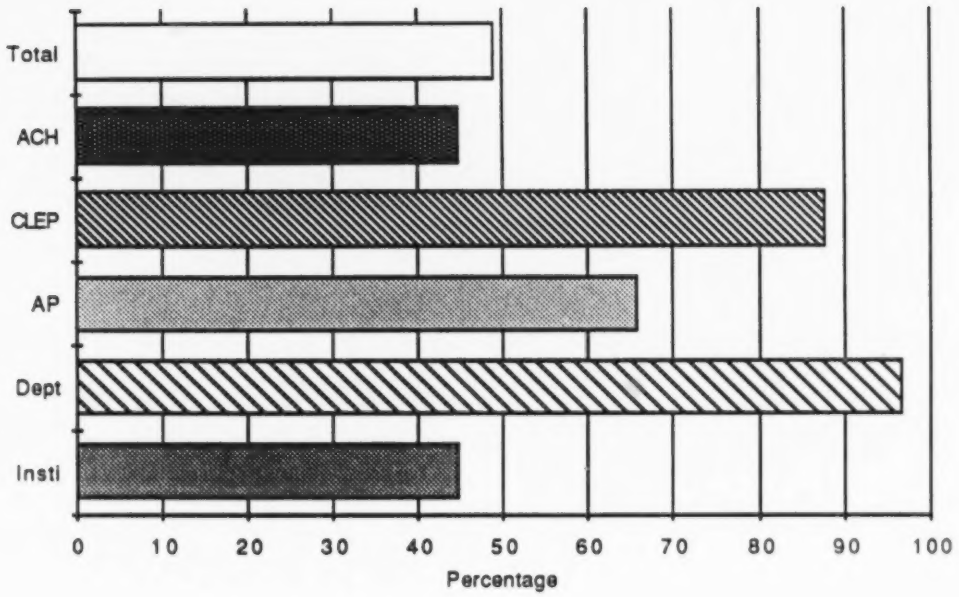

Figure 4. This figure indicates the percentages of test scores generating credit eligibility in the 1987-1988 testing program; the percentages are given within each category of test administration.

The percentages change as one turns from comparisons among the testing categories to comparisons within each category (Figure 4). Ninety-seven percent of the departmentally administered individual tests merited credit eligibility, while 49 (88%) of the 56 scores from national administrations of the CLEP Subject Examinations did so. National administrations of the Advanced Placement Examinations ranked third, with 66% of its 3,465 test scores generating credit. National administrations of 5,141 College Board Achievement Tests and institutional administrations of 17,265 tests resulted in lower rates of successful performance: 49% and 45%, respectively.